IIASA-Israel Symposium on Sustainability Pathways empowered by Systems Analysis

28 – 29 November 2022
Tel Aviv University, Tel Aviv, Israel

Day 1: November 28, 2022
Venue: The Steinhardt Museum of Natural History, Tel-Aviv University


16:00 – 17:00 Working session
Meeting with Executives of the International Institute for Applied Systems Analysis (IIASA), Israel's NMO IIASA Committee, Chief Scientists of Selected Government Ministries, and University VPs for Research
16:00 Welcome and opening remarks regarding IIASA
16:20 Research perspectives in Israel
16:45 Capacity building initiatives at IIASA
17:00 Closing remarks

17:00 – 17:30 Registration and refreshments

17:30 – 17:45 Master of Ceremonies
Prof. Itai Sened, TAU, IIASA Council member for Israel
Welcoming remarks
Prof. Tamar Dayan, Chair, The Steinhardt Museum of Natural History

17:45 – 18:00 Opening remarks
Dr. Albert van Jaarsveld, Director General, IIASA

18:00 – 18:10 Tentative: Mrs. Tamar Zandberg, Minister of Environmental Protection, Israel

18:10 – 18:15 Tentative: Mrs. Hilla Haddad Chmelnik, Director General, Ministry of Science, Israel

18:15 – 19:00 Keynote presentation “Systems analysis of population, education and environment interactions”
Prof. Wolfgang Lutz, Interim Deputy Director General for Science, IIASA

19:00 – 19:10 Closing remarks
Dr. Gansen Pillay, Interim Head, Communications and External Relations Department, IIASA

19:10 – 20:00 Dinner reception at the Museum Terrace
Day 2: November 29, 2022

Venue: Naftali Building, Faculty of Social Sciences, Tel Aviv University

Registration link: https://en-social-sciences.tau.ac.il/igs3/iiasa-29-11-22

09:00 – 10:00  Plenary meeting (all participants)
Welcome and Greetings
Prof. Milette Shamir, VP for international academic collaboration, Tel Aviv University
Dr. Vered Blass, Head of the Innovation in Industrial Ecology Lab, Tel Aviv University
Dr. Albert van Jaarsveld, Director General, IIASA
Introduction to IIASA and Systems Analysis

10:00 – 12:30  Parallel panels
Including a coffee break

Meeting room,
-1st floor  Demography
Moderator: Prof. Isaac Sasson, Associate Professor of Sociology, Faculty of Social Sciences, Tel Aviv University

Session 1: Frontiers in Demographic Research
Prof. Wolfgang Lutz, Interim Deputy Director General for Science, IIASA
Prof. Isaac Sasson, Associate Professor of Sociology, Tel Aviv University
Prof. Juho Härkönen, Professor of Sociology, European University Institute (Via zoom)
Dr. Eliahu Ben-Moshe, Demographer and Statistician, Department of Sociology and Anthropology, Hebrew University

Session 2: Demographic Research in Israel - Opportunities and Challenges
Prof. Analia Schlosser, Associate Professor of Economics, Tel Aviv University
Prof. Alex Weinreb, Research Director, Taub Center
Prof. Daniel Gotlieb, Former Chief Scientist, Israel Institute for Social Security

Discussion: opportunities for collaboration between IIASA and Israel
**Venezuela hall, 527**

**Biodiversity and Agriculture**

Moderator: Prof. Tamar Dayan, Chair, The Steinhardt Museum of Natural History, Tel Aviv University

Presentations:

**Dr. Piero Visconti**, Biodiversity, Ecology, and Conservation Research Group Leader, Biodiversity and Natural Resources Program, IIASA

Integrating ecology and conservation into the planning and assessment of sustainable agricultural policies.

**Mr. Uri Ramon**, the Open Landscape Institute, the Steinhardt Museum of Natural History, Tel Aviv University

Challenges in multi-purpose landscape management.

**Dr. Orah Moshe**, Ministry of Agriculture, Soil Erosion Research Station

Restoring riparian ecosystems as a means of increasing biodiversity.

**Dr. Francesca Falco**, School of Zoology, Tel Aviv University

Heterogeneous farmland under area-based conservation measures: the case of the EU Natura 2000 farmed sites.

**Dr. Yael Mandelik**, Faculty of Agriculture Food and Environment, The Hebrew University

Crop pollination services by wild and managed pollinators: local and global perspectives.

**Dr. Alon Shepon**, the Department of Environmental Studies, Tel Aviv University, and Chair of the Israeli Forum for Sustainable Nutrition

Restoring riparian ecosystems as a means of increasing biodiversity.

**Dr. Francesca Falco**, School of Zoology, Tel Aviv University

Heterogeneous farmland under area-based conservation measures: the case of the EU Natura 2000 farmed sites.

**Dr. Yael Mandelik**, Faculty of Agriculture Food and Environment, The Hebrew University

Crop pollination services by wild and managed pollinators: local and global perspectives.

**Dr. Alon Shepon**, the Department of Environmental Studies, Tel Aviv University, and Chair of the Israeli Forum for Sustainable Nutrition

Restoring riparian ecosystems as a means of increasing biodiversity.

**Dr. Francesca Falco**, School of Zoology, Tel Aviv University

Heterogeneous farmland under area-based conservation measures: the case of the EU Natura 2000 farmed sites.

**Dr. Yael Mandelik**, Faculty of Agriculture Food and Environment, The Hebrew University

Crop pollination services by wild and managed pollinators: local and global perspectives.

**Dr. Alon Shepon**, the Department of Environmental Studies, Tel Aviv University, and Chair of the Israeli Forum for Sustainable Nutrition

Restoring riparian ecosystems as a means of increasing biodiversity.

**Dr. Francesca Falco**, School of Zoology, Tel Aviv University

Heterogeneous farmland under area-based conservation measures: the case of the EU Natura 2000 farmed sites.

**Dr. Yael Mandelik**, Faculty of Agriculture Food and Environment, The Hebrew University

Crop pollination services by wild and managed pollinators: local and global perspectives.

**Dr. Alon Shepon**, the Department of Environmental Studies, Tel Aviv University, and Chair of the Israeli Forum for Sustainable Nutrition

Restoring riparian ecosystems as a means of increasing biodiversity.

**Dr. Francesca Falco**, School of Zoology, Tel Aviv University

Heterogeneous farmland under area-based conservation measures: the case of the EU Natura 2000 farmed sites.

**Dr. Yael Mandelik**, Faculty of Agriculture Food and Environment, The Hebrew University

Crop pollination services by wild and managed pollinators: local and global perspectives.

**Dr. Alon Shepon**, the Department of Environmental Studies, Tel Aviv University, and Chair of the Israeli Forum for Sustainable Nutrition

Restoring riparian ecosystems as a means of increasing biodiversity.

**Dr. Francesca Falco**, School of Zoology, Tel Aviv University

Heterogeneous farmland under area-based conservation measures: the case of the EU Natura 2000 farmed sites.

**Dr. Yael Mandelik**, Faculty of Agriculture Food and Environment, The Hebrew University

Crop pollination services by wild and managed pollinators: local and global perspectives.

**Dr. Alon Shepon**, the Department of Environmental Studies, Tel Aviv University, and Chair of the Israeli Forum for Sustainable Nutrition

Restoring riparian ecosystems as a means of increasing biodiversity.

**Dr. Francesca Falco**, School of Zoology, Tel Aviv University

Heterogeneous farmland under area-based conservation measures: the case of the EU Natura 2000 farmed sites.

Discussion: opportunities for collaboration between IIASA and Israel

---

**Water**

Moderator: Dr. Dor Fridman, Research Scholar, Water Security Research Group, Biodiversity and Natural Resources Program, IIASA

Presentations:

**Dr. Dor Fridman**, Research Scholar, Water Security Research Group, Biodiversity and Natural Resources Program, IIASA

Water and water-human interactions - overview of the IIASA Water group research.

**Prof. Hadas Mamane**, Head of Environmental Engineering Program, Mechanical Engineering Department, Tel Aviv University

It's all about water.

**Mr. Asaf Peres**, PhD student, Environmental Engineering Program, Mechanical Engineering Department, Tel Aviv University

Now-casting water quality parameters using AI.

**Prof. Eran Friedler**, Head of the Grand Water Research Institute, Technion

Modelling and monitoring urban and rural water systems – Can it support decision-making?

Discussion: opportunities for collaboration between IIASA and Israel
**Room # 505**

**The Energy and Transport Nexus**

**Moderator: Dr. Vered Blass**, Head of the Innovation in Industrial Ecology Lab, The Porter School of the Environment and Earth Sciences, Tel Aviv University

**Presentations:**

**Dr. Paul Natsuo Kishimoto**, Energy, Climate, and Environment (ECE) program, IIASA
Energy and Transport Systems Research using the MESSAGEix Integrated Assessment Model.

**Dr. Ayelet Davidovitch**, Innovation in Industrial Ecology Lab, Tel Aviv University

**Dr. Shahar Dolev**, Chief Scientist office, Ministry of Energy, Israel.
Using the MESSAGE model for planning NetZero emissions in 2050.

**Dr. Moshe Tshuva**, School of Mechanical Engineering, Afeka College
Is it possible for Israel to achieve 100% Renewables in 2050?

**Dr. Irena Milstein**, Faculty of Industrial Engineering and Technology Management, Holon Institute of Technology
Competitive electricity market with photovoltaic cells, batteries and gas technologies.

**Discussion:** opportunities for collaboration between IIASA and Israel

**12:30 – 13:15**

**Matanel garden**

**Summary Discussion and Closing Remarks**

Dr. Vered Blass, TAU
Dr. Albert van Jaarsveld, IIASA