

***France-Israel Dialogue on:
Sustainable Energy Options
4-5 July, 2010
The Jerusalem Institute for Israel Studies***

Experts from Israel

Mr Avner Adoram

***Head of the Systems Sector in the Office of the Chief Scientist at the Ministry of
Industry, Trade and Labor***

Has over 40 years of engineering experience in fields of medical imaging systems at Elscint (GE Ultrasound), electro-optics at Scitex (Kodak Israel), CTO of Indigo (HP Israel), military systems at the IMI (Israel Military Systems), CEO of Amtecs. Since 2000 he has headed the Systems Section in the Office of the Chief Scientist at the Ministry of Industry, Trade and Labor. This section is responsible for evaluating innovative Hi-Tec projects and requests for grants including for diverse energy projects.

Dr Ofira Ayalon

Senior Researcher at the Neaman Institute, Technion Institute for Technology

Holds a Ph.D from the Technion, Israel Institute for Technology. Since 2002 she serves as a Senior researcher and manager of energy and environmental policy projects at the Samuel Neaman Institute. These projects involve a wide range of activities related to environmental quality in Israel as well as energy policies. The studies and reports are submitted and jointly followed-up in cooperation with the Ministries of Finance, National Infrastructure and Environmental Protection, as well as other relevant government bodies. In addition, Dr. Ayalon is a senior lecturer at The Department of Natural Resources and Environmental Management, Graduate School of Management, University of Haifa.

Dr Yeshayahau Bar-Or

Chief Scientist at the Israeli Ministry of the Environment.

Received his Ph.D. from the Hebrew University of Jerusalem in applied and environmental microbiology. He went on to study cyan bacterial mats and their polymeric extracellular substances and their activities as flocculants in aqueous suspensions and soil systems. In 1989 he joined the Israel Ministry of the Environment as head of the water department, dealing with restoration of rivers, prevention of pollution caused by domestic and industrial wastewater, and treatment of contaminated soils. In 2004 Dr. Bar-Or was nominated as chief scientist of the Ministry and has dealt extensively with impacts of and adaptation to climate change in Israel, issues of environmental health, and environmental technologies. Since 2000, Dr. Bar-Or teaches environmental policy at the Department of Environmental Studies at the Hebrew University.

Professor Yaacov Bar-Siman-Tov

Head of the Jerusalem Institute for Israel Studies and Professor of International Relations, Hebrew University

Is Head of the Jerusalem Institute for Israel Studies and Giancarlo Elia Valori Professor of International Relations at the Hebrew University of Jerusalem. He is an expert on conflict management, resolution, negotiations and the Arab-Israeli conflict. He is the author of many articles, and of six books: *The Israeli-Egyptian War of Attrition 1969-1970: A Case Study of Limited Local War* (1980), *Linkage Politics in the Middle East: Syria Between Domestic and External Conflict, 1961-1970* (1983), *Israel the Superpowers and the War in the Middle East* (1987), *Israel and the Peace Process, 1977-1982: In Search of Legitimacy for Peace* (1994), *The Shift from War to Peace: The Complexity of Decision-Making-The Israeli Case* (1996), *The Disengagement from the Gaza Strip and Northern Samaria: Evacuation, Compensation and Legitimization* (with Keren Tamir, 2007).

Ms Valerie Brachya

Director of the Environmental Policy Center at the Jerusalem Institute for Israel Studies

Became Director of the Environmental Policy Center at the Jerusalem Institute for Israel Studies in June 2009. She retired from her previous position as Senior Deputy Director General for Policy and Planning in the Ministry of Environmental Protection, where she had been responsible for 5 departments: environmental planning (including environmental impact assessment),

environmental economics, landscape and biodiversity, international relations and environmental policy.

During 35 years in government service, Ms Brachya was a founding member of the environmental protection service and a central figure in establishing environment as an integral part of decision making in Israel, particularly in the land use planning system. She led many of the governmental environmental international initiatives and activities, including negotiations of agreements with partners in the region, representation of Israel in international institutions, such as UNEP, and recently, in Israel's accession process to the OECD. She believes in building consensus, transparency and accountability, for which the environmental organizations awarded her a 'Green Globe' in 2009.

Ms Brachya qualified in Geography and in Planning in England before immigrating to Israel in 1972, when she joined the research team of the Technion Centre for urban and regional planning for 2 years. She joined the academic staff of the Hebrew University nearly 20 years ago to initiate a course on environmental planning and is a guest lecturer at other Universities in Israel and abroad.

Mr Sagi Dagan

Economist at the National Economic Council in the Israeli Prime Ministers' Office

Is a senior economist at the National Economic Council in the Israeli Prime Ministers' Office, responsible for interdisciplinary policies at the fields of science and technology, industry and energy and environment. He is currently working on formulating national policies for development of oil substitute technologies and reduction of greenhouse gas emissions.

Mr. Dagan is currently writing his PhD thesis at the Berglas School of Economics in Tel Aviv University on: "Renewable Energies and Macroeconomics: "The replacement of technologies in the production of energy and transition to renewable energies."

Dr Shahar Dolev

Research director of the Israel Energy Forum

Is the research director of the Israel Energy Forum, aiming at advancing sustainable energy in Israel. The current effort of the Forum is focused on leading a policy for advancing energy efficiency in the various sectors of the Israeli economy. Dr. Dolev holds an MSc. degree in engineering, and PhD. in foundations of quantum mechanics.

Professor David Faiman

Chairman of the Department of Solar Energy & Environmental Physics at Ben-Gurion University's Jacob Blaustein Institutes for Desert Research

Is the Chairman of the Department of Solar Energy & Environmental Physics at Ben-Gurion University's Jacob Blaustein Institutes for Desert Research, Sede Boqer, where he is also director of Israel's National Solar Energy Center. A physicist by training, he obtained his first degree from the University of London, UK, and his second and third degrees from the University of Illinois, USA. During the years 1969-1976 he performed research in theoretical physics at: Oxford University, UK; CERN, Geneva, Switzerland; and the Weizmann Institute, Rehovot, Israel. In 1976 he joined Ben-Gurion University where he participated in the establishment of the Blaustein Institute, refocusing his research activities into the field of applied solar energy. He has performed pioneering research in the area of Concentrator Photovoltaics, is widely published, and has chaired or been a member of numerous national and international committees. At present he is Israel's representative to the Task 8 Photovoltaic Specialist Working Group of the International Energy Agency: Very Large Scale Photovoltaic Plants in the Desert.

Dr Gilead Fortuna

Senior research fellow of Samuel Neaman Institute, Technion Institute of Technology

Is Senior Research Fellow at the Samuel Neaman Institute, leading an implementation project of Israel 2028 Vision and Strategy: Leveraging Israeli Science and Technology and Innovation Culture through Pro-Active Industrial Policy.

He also serves as the Chief Strategy and M&A for Gadot Biochemical Industries.

Dr Fortuna has a Ph.D. in Chemical Engineering from the University of Illinois in USA and BSC and MSC from the Technion and Advanced Management Program from Harvard Business School.

His major professional experience in the last years was in:

2001-2008: Teva Pharmaceuticals, Vice President for Business Development (API division and Corporate East Asia). He also served as the VP for Operations and Environmental compliance of the API division,

1995-2001: President and CEO of both IMI – Tami, (Company for R&D) and of Fertilizers and Chemicals (Manufacturing company).

Dr Fortuna has initiated and managed several spin off companies based on IMI development: Novetide, Teva and IMI ownership for peptide productions

Acquise, for water treatment, in cooperation with Polar

Professor Ruth Lapidoth

Professor Emeritus, Faculty of Law, Hebrew University

Is Greenblatt Professor Emeritus of the Hebrew University, Professor at the Law School of the College of Management, and Senior Researcher at the Jerusalem Institute for Israel Studies. She has written extensively on international law, the law of the sea, autonomy and Jerusalem.

In addition to her academic career, she has been active in the diplomatic field. She was a member of Israel's delegation to the United Nations and several international conferences. She was the legal adviser to Israel's Ministry of Foreign Affairs (1979-1981). Since 1989 she is a member of the list of arbitrators of the Permanent Court of Arbitration in Hague. She is the 2000 recipient of the Prominent Woman in International Law award of the American Society of International Law.

Professor Ruth Lapidoth is the recipient of the Gass Award in 2001 for her contribution to Jerusalem Studies. In 2006 she received the Israel prize for excellence in legal research.

Dr Doron Lavee

Economist, CEO of Pareto consultants & Senior Lecturer, Tel-Hai College

Is Partner and General Manager, Pareto Engineering Ltd.

He received his Phd. from the department of Economics, Ben Gurion University.

He is head of the Economic and Management Department, Tel-Hai College, Senior Lecturer (Environmental economics).

He is former member of the Board of Directors, Afridar Co.; Chairman of the Finance Committee of the Board of Directors.

Between 1993-1995, Dr. Lavee was counselor at the Department of Budgets, the Treasury –

dealing with the development budget and regular budget of the Ministry of Housing.

Representing the Treasury in various committees, such as: The committee for reimbursements to contractors due to termination of building, the arrangement committee with Amidar, prices committee, the industrialization of construction committee, the subcommittee of managing directors for housing issues, etc'.

His company, Pareto, has accumulated long-range experience in a variety of subjects related to economy, finance and business consulting, including cost-benefit analyses, economic feasibility studies, budget and cash flow management, economic opinions, strategic planning, budgetary-economic control of projects, etc

Pareto provides its services to government ministries, public bodies, research institutes, infrastructure companies and large business concerns.

Professor Uri Marinov

Environmental Consultant

Has been working in the field of Environmental Management for the last 40 years, both in Israel and abroad. He has unique experience in the public and private sectors as well as in the academic field.

Prof. Marinov was the first Director General of the Ministry of the Environment and previous to that served as the Director of the Environmental Protection Service in the Prime Minister office as well as in the Ministry of the Interior. In these positions he was responsible for instituting Israel's national policies for protecting the country's environmental and natural resources, setting up the organisational structures and creating the professional know-how for the country. He was an advisor and later a member of the National Planning and Building Board and was responsible for the environmental assessment of large scale development projects including power-plants, airports and industry.

During 23 years of public service he represented Israel in many International Organisations including The Mediterranean Action Plan, United Nations Environment Program (UNEP) and served among others, as the chairman of the Israeli Delegation to the Earth Summit Conference in Rio de Janeiro in 1992. He served as a consultant to the Tennessee Valley Authority in the US, The World Bank, World Health Organization and in several developing countries.

Professor Marinov served as the Head of the Department of Natural Resources and Environmental Management of Haifa University. In addition to teaching, Prof Marinov is consulting some of the major companies in the country as well as public and private groups. Some of his Clients include Cross Israel Highway, Dead Sea Works, Machteshim, Agan Chemicals, Public Transportation Program for the Metropolitan of Tel Aviv and communities that suffer from noise pollution around Ben Gurion International Airport. He was a member of several groups that developed Master Plans and policies for Energy, Water and Solid Waste for the State of Israel.

Prof. Marinov is the author of many books, chapters in books and articles in International Professional Magazines on subjects related to Environmental Management, land- use planning, environment and development, environmental impact analysis, sustainable development and related subjects.

Dr Amit Mor

CEO of Eco Energy Ltd

Is an energy and environment economist, is the CEO of Eco Energy Ltd., an Israeli based economic and financial consulting and investment firm that specializes in the energy, environmental, and infrastructure sectors. He earned his Ph.D. in Energy, Environmental and Mineral Economics at Pennsylvania State University (1996). The topic of his dissertation was "Natural Gas Projects in the Developing World: an Empirical Evaluation of Merits, Obstacles and Risks". He studied for his M.A. and B.A. in Economics, Finance and Psychology at the Hebrew University of Jerusalem.

During the past 23 years, Dr. Mor has specialized in energy and environmental finance and economics. He served as a consultant to governments, financial organizations, public and private companies in the fields of natural gas, petroleum, electricity and renewable energy. During the 1990's he worked for eight years as a consultant at the World Bank in Washington D.C., and specialized in the finance of energy projects, as well as in reform planning of energy and environmental policies of developing countries. During the 1980s he served as an Assistant to the Israeli Minister of Energy and Infrastructure and as a Chief Economist in the Economic Planning Authority in the Ministry of Economic Planning.

Dr. Mor and his partner Shimon Seroussi lead the team that prepared the energy master plan for the State of Israel and participated in the World Bank team that prepared the Energy Sector Review for the Palestinian Authority. They are also working with the World Bank on developing strategies for solar energy development in Middle East and North-African countries.

Dr. Mor has a special interest in Middle East Energy and he frequently speaks in international conferences on these issues. In 2008 he co-chaired a conference in the London School of Economics titled "Renewable Energy in the Middle East - Enhancing security through regional cooperation", a book that he co-edited with this title was published in October 2009 by "Springer" under the "NATO Science for Peace and Security Series: Environmental Security".

<http://www.springer.com/978-1-4020-9890-1>

Dr Dan Kaufmann

Senior researcher at the Industrial Development Policy Group of the Jerusalem Institute for Israel Studies

Is head of the Industrial Development Policy Research Group of the Jerusalem Institute for Israel Studies since 1991. In the past three years his main research projects concern the development of regional innovation policies. These include research on the Jerusalem biotechnology cluster, mapping the biotechnology activities of the Hebrew University and the FP5 'Biolink' project. Dr. Kaufmann was also involved in the FP5 'IFISE' project where he conducted research on the Israeli financial support schemes for SMEs. Dr. Kaufmann was the coordinator of the European J-RIS project (2005-2008) to formulate an innovation strategy for the Jerusalem region. Recently, he led a project evaluating the "incubator" program for innovative industry in Israel. Currently, Dr. Kaufmann coordinates the research activities conducted in the EU 'TARGET' Project and heads the Israeli research team of the project.

Dr Brenda Shaffer

Senior researcher, School of Political Sciences, University of Haifa

Is a faculty member in the School of Political Science and Department of Asian Studies at the University of Haifa. She served in 2008-09 as the President of the Foreign Policy Section of the American Political Science Association (APSA). She has served as a Visiting Professor at the Azerbaijan Diplomatic Academy and Bifrost University in Iceland. Dr. Shaffer previously served as the Research Director of the Caspian Studies Program at Harvard University. Her research focuses on the Caucasus, Central Asia, and energy and politics. Dr. Shaffer takes a special interest in Caspian energy issues, ethnic politics in Iran, and the Nagorno-Karabagh conflict. Among her recent publications is the book *Energy Politics* (University of Pennsylvania Press, 2009). Dr. Shaffer is also the author of *Borders and Brethren: Iran and the Challenge of Azerbaijani Identity* (MIT Press, 2002). She was the editor of the book *The Limits of Culture: Islam and Foreign Policy* (MIT Press, 2006). She is the co-editor of a forthcoming book, *Export Perils* (University of Pennsylvania Press, 2011). Among her recent articles is "The Geopolitics of the Caucasus" (*Brown Journal of World Affairs*, May 2009). She serves as a lecturer and consultant on the Caspian region to a number of public organizations, governments and regional security organizations, including NATO. Dr. Shaffer's op-eds have appeared in a number of newspapers, including the *Wall Street Journal*, the *International Herald Tribune*, *Christian Science Monitor* and the *Boston Globe*.

Dr Harold Vinegar

Former Chief Scientist of Royal Dutch Shell and Senior Lecturer, Ben Gurion University

Recently retired as Chief Scientist of Royal Dutch Shell. He holds MA and PhD degrees in physics from Harvard University and a BA in physics from Columbia. Since joining Shell's Bellaire Research Center in 1976, he has had a career interest spanning 32 years applying in situ thermal recovery processes to unconventional resources such as tar sands and oil shale. He has over 50 publications and 250 patents in core analysis, well logging, soil remediation, and in situ conversion processes. *Dr. Vinegar* was inducted into the US National Academy of Engineering in 2006. He is a Fellow of the American Physical Society, Past-President of the Society of Core Analysts, and serves on the US National Research Council on Earth Resources. He received the Gold Medal for Lifetime Technical Achievement of the Society of Petrophysicists in 2009. He emigrated to Israel in December, 2008. He is an associate scientist at Ben Gurion University of the Negev working on new energy initiatives for Israel.

Dr Shlomo Wald

Chief Scientist, Ministry for National Infrastructure

Is the Chief Scientist of the Israel Ministry of National Infrastructure. Responsible for long-term national policy and technology development in the fields of: energy, water, earth and marine sciences.

He received his Ph.D. from the Weizmann Institute on: Measurements of Light Particles (neutrons, protons and a particles) Emitted in Deeply-Inelastic Collisions of ^{16}O on Ca Isotopes at 100 and 140 MeV.

Dr. Wald has 20 years of experience as chief scientist at the Propulsion Physics Laboratory, Soreq Nuclear Research Center. His fields of expertise are: Plasma physics, fluid dynamics and propulsion technologies. He has lead numerous large scale, national and international, scientific projects.

He has over 100 publications and holds several patents mainly in plasma applications in waste treatment and hard coating technologies. He served as the first Israeli coordinator in the EU RDT programs (in the 4th Framework Program). Dr. Wald is a Member of the Board of Governors of the United States - Israel Bi-national Science Foundation (BSF) and is the Israeli representative to the European Joint Research Center (JRC).