



Risk assessment of nuclear accidents
James H. (Jimmy) Belfer Memorial Symposium
Technion, Butler Auditorium October 29, 2012

Program

8:00-8:30 Registration. Coffee

8:30-9:00 Opening Session. Chairs M. Shapiro, E. Elias, Technion. Greetings by:

- **Professor O. Shmueli, Technion's Executive Vice President for Research,**
- **Professor P. Bar-Yoseph, Dean of Mechanical Engineering Faculty,**
- **Professor Y. Halevi – Belfer Fund representative,**
- **Dr. M. Markovits, Head, Licensing and Safety Division, Israel Atomic Energy Commission**

9:00-9:50 Keynote lecture

Dr. Jerry Cuttler, Canada. Radiation hormesis and criteria for evacuation in case of nuclear accidents

9:50-10:10 Coffee break

10:10 - 11:10 Session I, Chair Lt-Col. B. Brosh, Head, IDF Home Front R&D section. Nuclear accidents' aftermaths and their assessment

10:10-10:30 **Yonit Bomstein** (CEO, EVE Medical Systems) - Not everything that is troubling is troublesome: "Education" for radiation and other harmful factors in living organisms

10:30-10:50 **G. Chodick** (Maccabi Institute for Health Services Research) - Hiroshima & Nagasaki bombings: the radio-epidemiological aspect

10:50- 11:10 **Y. Socol** (AFNA – Acad. Forum for Nuclear Awareness) Chernobyl legacy: black prophecies' bubble

11:10-11:30 Coffee break

11:30 - 13:40 Session II. Chair Y. Socol, AFNA. Lectures+ Panel session+ Poster session: Nuclear and radiation safety

11:30 – 11:50 **M. Brill** (Nuclear Research Center Negev, ret.) - Civil Defense behavior under nuclear threat

11:50-12:15 **I. Levanon** (Israel Atomic Energy Commission - IAEC)– Threat from malicious acts and nuclear safety

Panel session (short presentations for the poster session)

12:15 -12:20 **R. Gonen, U. German** (Nuclear Research Center Negev), **Z.B. Alfassi, E. Priel** (Ben Gurion University of the Negev -BGU) - DNA topoisomerase-I: a novel radiation exposure biomarker

12:20 – 12:25 **S. Levy, E. Grossman, A. Ellenbogen** (Nuclear Research Center Negev) - Safety perception for control systems in modern nuclear reactors

12:25 – 12:30 **M. Yanovskiy, I. Zatcovetsky, Y. Socol** (AFNA) - Low doses of radiation: scientific controversy and public choice for nuclear hazards



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12:30 - 13:40 Poster Session, Chair Y. Socol, AFNA. Discussion

12:30 – 13:40 Lunch

13:40 - 15:05 Session III. Chair P. Dickstein, Soreq Nuclear Research Center, Managing nuclear accidents and nuclear terror

13:40-14:05 **M. Markovits, R. Ashkenazi** (IAEC) - Implementation of Nuclear Safety at the Israel Atomic Energy Commission

14:05 -14:25 **E. Laor** - IMPULSE. Crisis management for large-scale nuclear disasters

14:25-14:45 **G. Shechter** (Bar-Ilan University) - Management of Critical Supply Chains in Event of a Nuclear Explosion over Israel

14:45-15:05 **M. Yanovskiy, I. Zatskovetsky** (AFNA) - Radiophobia and incentives: from nuclear accidents to special interest groups

15:05 – 15:20 Coffee break

15:20 - 16:40 Session IV Chair Y. Ronen, BGU, Nuclear protection, risk and radiation exposure

15:20-15:40 **D. Ornai, O. Vilnay, Y. Ronen** (Ben-Gurion University) - Nuclear power plant resistance enhancement against projectile hits

15:40-16:00 **M. Stern, S. Pistinner, T. Reisin** (Soreq Nuclear Research Center) - Mitigation of radiation exposure – Gaussian dispersion model

16:00-16:20 **A. Kirschenbaum, C. Rapaport, S. Lubasz** (Technion) - Security decisions in high-risk nuclear facilities

16:20-16:40 **E. Tsafir** (Interdisciplinary Center, Herzliya) - Nuclear risk assessment at Middle East: religious and cultural background to Arab-Islamic attitude to nuclear programs

16:40 Closure session