

The 13th Ilan Ramon International

SPACE CONFERENCE

JANUARY 29-30, 2018
Tel Aviv University, Israel

Remote Sensing in the New Era


JANUARY 29, 2018
VENUE: SMOLARZ AUDITORIUM /// 08:00-19:00
08:00 - 08:30 Registration & Refreshment
08:30 - 09:05 Welcoming Remarks

Dr. Deganit Paikowsky, Chairperson, The 13th Ilan Ramon International Space Conference, Tel Aviv University

MK Ofir Akunis, Ministry of Science and Technology

Col. Peretz Vazan, Director General, Ministry of Science & Technology

Prof. Isaac Ben Israel, Chairman, Israel Space Agency, Israel's Ministry of Science and Technology, Head of Yuval Ne'eman Workshop for Science Technology and Security, Tel Aviv University

Mr. Avi Blasberger, Director, Israel Space Agency, Israel's Ministry of Science and Technology

Commemoration to the Columbia Crew

09:05 - 09:25 Keynote Lecture: Space 4.0: Governments and Industries Advancing Together into Space

Dr. Johann-Dietrich Woerner, ESA Director General

09:25 - 11:00 Remote Sensing for Sustainable Development - Heads of Space Agencies

Moderator: Mr. Avi Blasberger, Director, Israel Space Agency, Israel's Ministry of Science and Technology

- **2017 A Year in Review: Policy and Security**, Ms. Gil Baram, Researcher, Yuval Ne'eman Workshop for Science Technology and Security, Tel Aviv University

- **Historical Perspective on The Developments and Trends of Remote Sensing**, Dr. Martin Collins, National Air and Space Museum, Smithsonian Institution

- **Panel Participants:**

- Prof. Roberto Battiston, ASI President

- Prof. Dr. Pascale Ehrenfreund, Chair of the DLR Executive Board

- Dr. Pham Anh Tuan, VNSC Director General

- ISRO representative

11:00 - 11:30 Coffee Break & Networking

- 11:30 – 13:00 **Venus Satellite: Science, Technology and Cooperation**
 Moderator: Mrs. Inbal Kreiss, IAI Deputy General Manager
- *2017 A Year in Review: Science (Astronomy and Astrophysics)*, Prof. Eli Waxman, Weizmann Institute for Science
 - *Joint Presentation Israeli-French Cooperation Past & Future*, Mr. Jean-Yves Le Gall, CNES President and Mr. Avi Blasberger, ISA Director General
 - *The Scientific Mission: Israeli-French Venus P.I. Cooperation*, Prof. Arnon Karnieli, Head of the Remote Sensing Laboratory, Ben Gurion University and Dr. Gerard Dedieu, CESBIO
 - *The Technological Mission, Joint Presentation*, IAI, EL-OP and RAFAEL
- 13:00 – 14:00 **Lunch Break and Networking**
- 14:00 – 15:55 **Technological Advancement in the New Space Era**
 Moderator: BG (Res.) Amnon Harari, Head of the Space Administration in the Defense Ministry
- *2017 A Year in Review: Industry & Technology*, Mr. Tal Inbar, Head of Space & UAV Center, The Fisher Institute
 - *Quantum Computing for Space Missions*, Dr. Eugene Tu, NASA Ames Director
 - *Perspectives on Future Technologies and Cooperation with the Private Sector*, Major General Robert Skinner, Deputy Commander, US Air Force
 - *Israel's role in NASA's Exploration Flight Test Mission-1*, Mr. David Murrow, Senior Manager, Business Development Commercial Civil Space, Lockheed Martin
 - *Solving Solutions for small Satellites*, Dr. Dan Lev, RAFAEL
 - IAI representative
 - ISI representative
 - ELBIT / EL-OP representative
- 15:55 – 16:20 **Coffee Break & Networking**
- 16:20 – 17:15 **The Future of the Space Club**
 Moderator: Prof. Isaac Ben Israel, Chairman, Israel Space Agency, Israel's Ministry of Science and Technology, Head of Yuval Ne'eman Workshop for Science Technology and Security, Tel Aviv University
- *The Space Club in Transition From Old Space to New Space Ecosystem*, Dr. Deganit Paikowsky, Tel Aviv University
 - *Current Challenges and Future Roles of Governments in Leading Space Exploration, Research, and Technology*, Mr. Charles Bolden, NASA Former Administrator
 - *Visioning Our Future in Space*, Dr. Reut Sorek-Abramovich, Davidson Institute of Science, Education and the Dead-Sea Arava Science Center.
- 17:15 – 17:45 **Coffee Break & Networking**
- 17:45 – 19:00 **SPECIAL EVENT**
Earth From Space: Interactive Astronauts Panel
 Moderators: Mr. Tal Inbar, Head of Space & UAV Center, The Fisher Institute and Ms. Helen Wexler, Space Architect & Founder at Bubble Base
- Participants:**
 Astronaut Dr. Donald Thomas, USA
 Astronaut Dr. Michael Barratt, USA
 Astronaut Dr. Thomas-Henry Marshburn, USA

JANUARY 30, 2018

VENUE: BAR SHIRA AUDITORIUM /// 08:00-16:30

08:00 – 08:30 **Registration & Refreshment**

08:30 – 08:45 **Welcoming Remarks**

Luc St-Pierre, Chief, Space Applications Section, UNOOSA

08:45 – 12:15 **NewSpace and the Startup Nation**

Moderator and lecturer: *What is NewSpace?* Mr. Ofer Lapid, Founder & CTO at SpaceNest

Disrupting 'Old Space'

- *Remote Sensing to The Power of Hundreds*, Ms. Agnieszka Lukaszczyk, Planet (US,EU)
- *Analytics and Business Intelligence from Space*, Mr. Ami Daniel, WindWard Israel
- *In Orbit Servicing*, Mr. Arie Halsband, Effective Space Solutions, Israel
- *The Mega Constellations Revolution*, Mr. Meidad Pariente, Sky and Space Global, UK
- *Software Defined Space*, Mr. Ran Ginosar, Ramon Chips, Israel
- *Nontoxic Space Propulsion*, Mr. Moti Elyashiv, Newrocket, Israel

10:10 – 10:40 **Coffee Break & Networking**

New Exciting Space

- *The Micro Gravity Revolution*, Mr. Yossi Yamin, SpacePharma, Israel
- *Keeping Space Travelers Alive*, Mr. Oren Milstein, StemRad, Israel
- *Outer Space Manufacturing*, Ms. Helen Wexler, Space Architect & Founder at Bubble Base

Let's Get Down To Business

- *Government Funding Opportunities*, Dr. Nili Mandelblit, Director of Programs, ISERD
- *Israeli Commercial Space Export Control*, Ms. Hanna Peleg, DECA
- *Investor's Perspective*, Mr. Yonatan Machado, JVP
- *How Do I Start? A Founder's Testimony*, Mr. Yariv Bash, Spacell, Israel
- *Wrapping-up*, Mr. Ofer Lapid, Founder & CTO at SpaceNest

12:20 – 13:20 **Lunch Break and Networking**

13:20 – 14:40 **Looking into Space**

- *Juice – Jupiter ICY Moon Explorer - Joint Presentation*, Prof. Yohai Kaspi, Department of Earth and Planetary Sciences Weizmann Institute for Science and ASI/ESA representative
- *ISS-TAO Transient Astrophysics Observatory on the ISS, Joint Presentation* Prof. Ehud Behar, Director of Asher Space Research Institute
- *ULTRASAT - Ultraviolet Transient Astronomy Satellite*, Prof. Eli Waxman, Department of Physics & Astrophysics, Weizmann Institute of Science
- *NASA View on Space Exploration*
- *ESA View on Space Exploration*

Space and CyberSecurity

14:40 – 15:10 Moderator: Prof. Isaac Ben Israel

- *Cyber Threats to Space Systems*, Ram Levi, Founder & CEO, konfidas

15:10 – 15:40 **Coffee Break & Networking**

15:40 – 16:30 **MARS Habitats for Research, Education and Inspiration**

Moderator: Prof. Oded Aharonson, The Weizmann Institute of Science

- *A Space in the News*, Mr. Ettay Nevo, Davidson Institute, Weizmann Institute
- *Habitats as A Tool for Future Space Explorations and Education*, TBC
- *Architecture of Habitats*, Mr. Alon Shikar, Shika Architect
- *I-MARS, the Israeli Habitat Mission*, Dr. Hillel Rubinstein, Weizmann Institute

16:30 **Closing Remarks**