PROGRAM

<table>
<tr><td>07:45-08:30</td><td colspan="3">Registration, Exhibition
Covered Events Garden</td><td></td></tr>
<tr><td>08:30-09:45</td><td colspan="3">Opening Session - Plenary
Main Rayman Hall
Chair: Prof. Adin Stern & Dr. Amnon Shirizly</td><td></td></tr>
<tr><td>09:45-10:30</td><td colspan="3">Exhibition, Poster Presentation, Breakfast
Covered Events Garden</td><td></td></tr>
<tr><td>10:30-12:00</td><td colspan="3">Parallel Sessions 1</td><td></td></tr>
<tr><td></td><td>Polymers
Rayman Hall West
Chair: Prof. Naum Naveh & Dr. Lior Zonder</td><td>Metals
Main Rayman Hall
Chair: Dr. Ehud Galun & Dr. Alex Diskin</td><td>Industry Spotlight
Rayman Hall East
Chair: Mr. Ziv Sadeh & Mr. Ohad Dolev</td><td rowspan="5">Posters Session
Hall TBD
Chair: Dr. Dana Ashkenazi

Poster Judging Committee:
Dr. Avi Raveh, Dr. Guy Ben-Hamu, Mr. Amos Fridman & Mr. Yuval Gale</td></tr>
<tr><td>12:00-12:20</td><td colspan="3">Exhibition, Poster Presentation, Coffee Break
Covered Events Garden</td></tr>
<tr><td>12:20-13:50</td><td colspan="3">Parallel Sessions 2</td></tr>
<tr><td></td><td>Application
Rayman Hall West
Chair: Dr. Galit Katarivas Levy & Mr. Michael Librus</td><td>Emerging Technologies
Main Rayman Hall
Chair: Prof. Genady Ziskind & Dr. Adi Ben-Artzy</td><td>Industry Spotlight
Rayman Hall East
Chair: Mr. Dani Safranchik & Mr. Yair Sharon</td></tr>
<tr><td>13:50-14:30</td><td colspan="3">Closing Session - Plenary
Main Rayman Hall
Chair: Dr. Eitan Tiferet & Dr. Dana Ashkenazi</td><td></td></tr>
<tr><td>14:30-15:30</td><td colspan="3">Exhibition
Covered Events Garden
Lunch
Hotel Dining Room</td><td></td></tr>
</table>

* Please note that at this point the program is still subject to changes

PROGRAM

07:45-08:30
Registration, Exhibition
Covered Events Garden

08:30-09:45
Opening Session - Plenary
Main Rayman Hall
Chair: Prof. Adin Stern & Dr. Amnon Shirizly

Greetings and Opening Remarks:
ICAM 2023 Chairpersons - Prof. Adin Stern and Dr. Eitan Tiferet
Mr. Guy Shasha - Chairmen of The Association of Engineers, Architects and Graduates in Technological Sciences in Israel (AEAI)

Plenary Lecture: (ICAM101) Advances in metal additive manufacturing using laser powder bed fusion
Dr. Manyalibo J. Matthews, Lawrence Livermore National Laboratory

Plenary Lecture: (ICAM100) New materials and approaches for 3D and 4D printing
Prof. Shlomo Magdassi, The Hebrew University of Jerusalem

10:30- 09:45
Exhibition, Poster Presentation, Breakfast
Covered Events Garden

10:30-12:00
Parallel Sessions 1

Polymers Rayman Hall West Chair: Prof. Naum Naveh & Dr. Lior Zonder	**Metals** Main Rayman Hall Chair: Dr. Ehud Galun & Dr. Alex Diskin	**Industry Spotlight** Rayman Hall East Chair: Mr. Ziv Sadeh & Mr. Ohad Dolev
(ICAM104) KEYNOTE: 4D printing: From the "ink" to the medical device Prof. Daniel Cohn, Hebrew University of Jerusalem	**(ICAM103) KEYNOTE: Neutron-based characterization to improve additive manufacturing of alloy components** Dr. Sven Vogel, Los Alamos National Laboratory (LANL)	**(ICAM115) Innovative zirconia-based material shaped by SLA 3D printing** Mr. Arnaud Roux, 3DCERAM
(ICAM116) Characterization and analysis of ULTEM 1010 cellular structures Mr. Idan Distelfeld, Rafael Defense Systems	**(ICAM145) Compositionally graded SS316 to C300 Maraging steel using additive manufacturing** Dr. Adi Ben-Artzy, Ben Gurion University of the Negev, University of California at Berkeley, P.Jetropulsion Laboratory, California Institute of Technology and Lawrence Berkeley National Laboratory	**(ICAM113)There is no one size fits all – Complementary use cases of different polymer technologies** Ms. Ronny Eden, Su pad Ltd.
(ICAM117) Improvement of green density of binder jetting as printed ceramics parts Dr. Gary Muller-Kamskii, Israel Institute of Materials Manufacturing Technologies – Technion R&D Foundation, Israel Ceramic and Silicate Institute, Israel Plastics and Rubber Center	**(ICAM140) Tailoring dynamic mechanical properties using the Taguchi method** Mr. Ben Amir, Ben Gurion University of the Negev, NRCNand Israeli Aerospace Industries	**(ICAM133) Applying finite elements practices to predict manufacturing distortions in a sintered 3D printed mold Jet®-metal part** Mr. Omri Yannay, Ansys
(ICAM129) 3D-printing transparent γ-alumina structures by combining sol-gel and photopolymerization processes Ms. May Yam Moshkovitz, The Hebrew University of Jerusalem	**(ICAM158) Anisotropy of additive manufacturing of 316L** Mr. Yohanan Nahmana, BSEL-Ltd	**(ICAM161) Innovation in mechanical design using guidelines and optimization tools for additive manufacturing** Mr. Guy Yaros, Systematics

Posters - Hall TBD | Chair: Dr. Dana Ashkenazi
Poster Judging Committee: Dr. Avi Raveh, Dr. Guy Ben-Hamu, Mr. Amos Fridman & Mr. Yuval Gale

12:00-12:20
Exhibition, Poster Presentation, Coffee Break
Covered Events Garden

12:20-13:50
Parallel Sessions 2

Application Rayman Hall West Chair: Dr. Galit Katarivas Levy & Mr. Michael Librus	**Emerging Technologies** Main Rayman Hall Chair: Prof. Genady Ziskind & Dr. Adi Ben-Artzy	**Industry Spotlight** Rayman Hall East Chair: Mr. Dani Safranchik & Mr. Yair Sharon
(ICAM120) KEYNOTE: Patient-specific Ti-6Al-4V lattice implants for critical-sized load-bearing bone defects reconstruction Dr. Amit Benady, Tel Aviv Sourasky Medical Center	**(ICM110) KEYNOTE: A study of pre-heating stages in electron beam melting using numerical simulations** Mr. Eran Landau, Ben Gurion University of the Negev, AM Center, Rotem Industries LTD and Nuclear Research Center Negev	**(ICAM108) The challenges of identifying parts for additive manufacturing** Mr. Omer Blaier, CASTOR
(ICAM125) Hydrogen trapping in additive manufactured stainless steel Ms. Polina Metalnikov, Sami Shamoon College of Engineering and Ben-Gurion University of the Negev	**(ICAM135) 3D printing of stretchable foams for soft robotics** Mr. Ouriel Bliah, Hebrew Univesity of Jerusalem	**(ICAM156) Tritone MoldJet® metal & ceramic AM process, materials & performance** Mr. Amnon Sommer, Tritone Technolgies
(ICAM 143) 21st century geometric modelling: porosity/heterogeneity in the equation Prof. Gershon Elber, Technion – Israel Institute of Technology	**(ICAM137) PCRT validation with micro-CT for 15-5PH AM steel** Mr. Thomas Koehler, Vibrant GmbH	**(ICAM168) Hybrid manufacturing: Combining Metal 3D Printing and CNC Post Processing** Dr. Emil Somekh, Solidcam
(ICAM111) A sustainable Shift in additive manufacturing for the Construction Industry Asst. Prof Shany Barath and Arch. Avraham Cohen, Technion – Israel Institute of Technology	**(ICAM130) Qualification of AM ceramic components for aerospace applications** Dr. Oleg Kovalenko, Rafael Advanced Defense Systems	**(ICAM172) Two-photon polymerization based on Nanoscribe's Quantum X series: A powerful 3D-microfabrication tool** Dr. Julian Ochsmann, Nanoscribe

Posters - Hall TBD | Chair: Dr. Dana Ashkenazi
Poster Judging Committee: Dr. Avi Raveh, Dr. Guy Ben-Hamu, Mr. Amos Fridman & Mr. Yuval Gale

13:50-14:30
Closing Session - Plenary
Main Rayman Hall
Chair: Dr. Eitan Tiferet & Dr. Dana Ashkenazi

Plenary Lecture: (ICAM102) Neutron and high energy X-ray diffraction characterization of materials under simulated manufacturing conditions
Dr. Don Brown, Los Alamos National Laboratory (LANL)

Best Poster Awards
Poster Judging Committee: Dr. Dana Ashkenazi, Dr. Avi Raveh, Dr. Guy Ben-Hamu, Mr. Amos Fridman & Mr. Yuval Gale

15:30 -14:30
Exhibition
Covered Events Garden
Lunch
Hotel Dining Room

* Please note that at this point the program is still subject to changes

Posters
Hall TBD
Chair: Dr. Dana Ashkenazi
Poster Judging Committee: Dr. Avi Raveh, Dr. Guy Ben-Hamu, Mr. Amos Fridman & Mr. Yuval Gale

1. (ICAM163) 4D printing of commercial based conductive polylactic acid: Strength and resistance poperties
Mr. Amihai Amram & Mr. Matan Faigenblat, Afeka Academic College of Engineering

2. (ICAM154) 3D printed cultivation system for microorganisms
Dr. Asher Wishkerman, Ruppin Academic Center

3. (ICAM138) Sintering conditions effect on 3DP ceramic parts
Ms. Dana Benes Dahan, Kulicke and Soffa

4. (ICAM122) AM of superalloys for aerospace turbines – A review
Dr. Daniel Moreno, Bet Shemesh Engines, F.A.A & E.A.S.A.

5. (ICAM171) Localized electrochemical deposition of overhanging multimaterial metal structures by hydrodynamic flow confinement
Mr. Daniel Widerker, Technion - Israel Institute of Technology and IBM Zurich Research Lab

6. (ICAM146) Structure, mechanical performance, and fractography of ABS produced by the fused filament fabrication additive manufacturing
Mr. Dmitry Richkov, Afeka Academic College of Engineering, Ben-Gurion University of the Negev and Tel Aviv University

7. (ICAM157) Structure and fracture visualization of tilted ABS samples processed via fused filament fabrication additive manufacturing
Mr. Dmitry Richkov, Afeka Academic College of Engineering, Ben-Gurion University of the Negev and Tel Aviv University

8. (ICAM112) Investigation of process parameters for EB-PBF 316L stainless steel
Mr. Dor Braun, Ben-Gurion University of the Negev, Rotem Industries LTD and Nuclear Research Center Negev

9. (ICAM132) 3D objects composed of 100% proteins by two-photons printing
Mr. Doron Kam, The Hebrew University of Jerusalem

10. (ICAM141) 3D-printing: A powerful tool for miniaturizing bioinspired robots
Mr. Dror Kobo,Tel-Aviv University

11. (ICAM124) Investigating the process efficiency in EBM AM process
Mr. Elroei Damri, Nuclear Research Center of the Negev

12. (ICAM118) Ultra-precise deposition: Additive manufacturing process for next-generation electronics
Mr. Filip Granek, XTPL SA

13. (ICAM159) The effect of location in the built space on the mechanical properties in Ti-6Al-4V samples produced by EBM
Mr. Gennady Rafailov, Ben Gurion University of the Negev, Nuclear Research Center of the Negev and Los Alamos National Laboratory

14. (ICAM166) Determining the processes enviroment: The effect of temperature on the electrical properties of Ti-6Al-4V powder in PB EBM process
Mr. Grisha Rudelson, Nuclear Research Center Negev

15. (ICAM155) Vat and cured photopolymerization of antibacterial medical applications embedding zinc oxide nanoparticles
Mr. Guy Naim, The Hebrew University of Jerusalem

16. (ICAM119) 3D printing of bio-inspired amorphous calcium carbonate composites
Ms. Hadar Shaked, Technion - Israel Institute of Technology

17. (ICAM147) Mechanical and cell testing of 3D printed PEEK-CF for dental and orthopedic implants
Mr. Itamar Tulpan, Ben Gurion University of the Negev

18. (ICAM169) Fabrication of customable diffractive optical elements by thermocapillary fluidic shaping
Mr. Jonathan Ericson, Technion - Israel Institute of Technology

19. (ICAM153) Zinc-based filaments for biodegradable orthopedic implants
Mr. Mark Bezner, Ben Gurion University of the Negev

20. (ICAM150) Corrosion fatigue of 316L alloy produced by WLAM
Mr. Maxim Bassis, Ben Gurion University of the Negev and Kotliar Ltd., LWS Laser Welding Solutions

21. (ICAM167) Fabrication of eyeglass lenses using fluidic shaping
Mr. Mor Elgarisi, Technion - Israel Institute of Technology

22. (ICAM 109) A new approach towards regulation of 3D printed medical devices
Dr. Nadav Sheffer Afeka - Academic College of Engineering and Ariel University

23. (ICAM151) 4D-bioprinting of skin tissue patches
Ms. Noa Gabay Bass, Ben Gurion University of the Negev

24. (ICAM164) Fluidic shaping of optical components in microgravity: From parabolic flights to the international space station
Mr. Omer Luria, Technion - Israel Institute of Technology

25. (ICAM149) Additive manufacturing of direct clear aligners using shape memory resin
Mr. Or Ariel, Ben Gurion University of the Negev

26. (ICAM148) Development of filaments based on PEI for electrochemical biosensors
Mr. Shahar Halevi, Ben Gurion University of the Negev

27. (ICAM160) Additive manufacturing of anisotropic graphene-based composites for thermal management application
Ms. Shani Ligati Schleifer, Ben Gurion University of the Negev

28. (ICAM162) Inorganic ZnO and triethoxymethylsilane coating for dental implants made of PEEK
Ms. Shelly Betsis, The Hebrew University of Jerusalem

29. (ICAM131) Particle-free compositions for 3D printing ceramics by photopolymerization
Ms. Tamar Rosental, The Hebrew University of Jerusalem

30. (ICAM152) Properties of HEA WTaMoNbV produced by SLM proces
Mr. Ron Tomer, Ben Gurion University of the Negev and Israel Institute of Metals - Technion

31. (ICAM127) Sinter based additive manufacturing of shape memory alloys
Mr. Yeshurun Cohen, Rafael LTD and Technion - Israel Institute of Technology

32. (ICAM170) Design for AM - The fun way
Mr. Yoram Retter, IAI

33. (ICAM114) Enhancement of Resistance to Moisture of Bulk Metal® Foil Resistors
Mr. Albert Dadashev ,VPG Foil Resistors