Preliminary Program
ICOHTEC & HISTELCON 2015
Tel Aviv
(11 May 2015)

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Sunday, 16th August 2015
17.30–19.00

Official Opening of ICOHTEC 2015 followed by the Kranzberg Lecture
19.00–21.00: Reception

Monday, 17th August 2015
09.30–11.00

A. Session: Digitalization and Its Cultural Impact on Humans
- Galit Wellner (Ben Gurion University of the Negev): The Cellular Age: History of the Cellphone as a Memory Prosthesis

B. Session: Encoding and Decoding – the Communication of Technological Invention
- Ido Ramati (The Hebrew University of Jerusalem): Coding Hebrew: Archaeology of Hebrew Mores Code
- Elena Helerea / Dănuț Puiu Serban (Transilvania University of Brasov): Dragomir Hurmuzescu (1865-1954) – Promoter of High-Communication Technique in Romania
- Omer Keynan (Bar-Ilan University/ Tel Aviv University): Therapeutic Dimension in Virtual Discourse

C. Session: Tenth Annual ICOHTEC Symposium on the Social History of Military Technology (1)
Organizer: Bart Hacker (Smithsonian Institution); Co-Organizer: Ciro Paoletti (Italian Commission of Military History)
- Sandy Kuttler (Independent scholar, Israel) / Hadas Marcus (Tel Aviv University): The Sling: An Overlooked “Poor Man’s Weapon”
- David Zimmerman (University of Vancouver): Technological Determinism and Military History: A Post-Industrial Revolution Perspective
- Seymour E. Goodman (Georgia Tech): Absorbing Information Technologies into the Field Armies of the American Civil War
11.00–11.30: Coffee Break

11.30–13.00

A. Session: Environment: Climate Change and the Communication of Information
- Anthony Nicholas Stranges (Texas A&M): Guy Callendar and Gilbert Plass, Pioneering Proponents of Global Warming
- Petter Wulff (Swedish Defence Research Agency): Climate Change – a Role for History?
- Hadas Marcus (Tel Aviv University): Ecocinema: Portraying Technological Encroachment and Alienation from Nature

B. Session: Consumer Goods – Production and Usages
- Dick van Lente (Erasmus University Rotterdam): The Philips Electronics Company as a Popularizer of High Tech
- Timo Myllyntaus (University of Turku): Learning by Experience: Reconsidering the Horndal Effect on Productivity
- Wolfgang König (TU Berlin): On the Co-Construction of Technology and Culture: The Condom’s Difficult Path to Become a High-Tech Product

C. Session: Tenth Annual ICOHTEC Symposium on the Social History of Military Technology (2)
Organizer: Bart Hacker (Smithsonian Institution); Co-Organizer: Ciro Paoletti (Italian Commission of Military History)
- William Dean (US Air Command and Staff College, Alabama): Technology and French Colonial Warfare 1871–1914
- Ciro Paoletti (Italian Commission of Military History): A Problem of Weight and Speed: Italian Bombing from Airships to Airplanes, 1911–1916
- Esat Arslan (Cag University, Turkey): The Military Foundation of Turkish Airlines

D. Session: Development of Oil and Gas Technologies for Improving the Economic and Political Situation of Countries and Regions (1)
Organizer: Eldar Movsumzade (Ufa State Petroleum Technological University)
- Eldar Movsumzade / Poletaeva Olga / Borodin Artem / Latypova Dinara (Ufa State Petroleum Technological University): The Influence of the Political and Economic Situation on the Development of Alternative Source of Hydrocarbons
- Mastobaev Boris / Bahtizin Ramil’ (Ufa State Petroleum Technical University): Development of Techniques and Technologies of Ensuring Stable Operation of Oil Pipelines
- Teregulov Rim / Dorozhkin Vsevolod (Ufa State Petroleum Technical University): Liquefied Natural Gas (LNG) Market in the Perspective of the Present and Future World Gas Supply
13.00–14.30: Lunch Break

14.30–16.00

A. Plenary Session: Alternative Concepts of Mobility
- Alexander Konrad (Technical University of Berlin): Passengers’ Influence on London’s and Berlin’s Urban Transit Systems Around 1900
- Maria Elvira Callapez (CIUHCT-FCUL) / Maria Luisa Sousa (CIUHCT-FCT/UNL-NOVA): Disciplining the Poor’s Mobilities during Portuguese Dictatorship: Discourses on Professional Drivers and on Pedestrians (1930s–1950s)
- Christopher Neumaier (Centre for Contemporary History Potsdam): At the Crossroads: the Cultural Perception of Cars and its U-Turn in Europe and the USA, 1970s–1980s

16.00–16.30: Coffee Break

16.30–18.00

A. Session: National Security, Databases, and Privacy
- Alla Lytvynko (NAS of Ukraine): Historic Experience of Scientists and Engineers from the National Academy of Science of Ukraine in the Sphere of National Security
- Michelle Spektor (Bar-Ilan University): Resistant Experts and Credible Resistance: Negotiating the Implementation of a National Biometric Database in Israel

B. Session: Knowledge, Creativity & Engineering
- Avner Molcho Molcho (NYU): Israel’s Shift Towards Knowledge-Based Industries
- Shaul Katzir (Tel Aviv): Differences Between Commercial and Academic Drawings in Research Notebooks
C. Session: Tenth Annual ICOHTEC Symposium on the Social History of Military Technology (3)
Organizer: Bart Hacker (Smithsonian Institution); Co-Organizer: Ciro Paoletti (Italian Commission of Military History)

- Anna Turza (University of Rzeszow, Poland): For the Country, for Their Rights: Polish Women in Military Training before World War Two.
- Francesco Gerali (University of Western Australia): Squeezing Coal to Fill the Tank. The German Scientific Endeavor for Synthetic Fuel Production between the Two Wars
- Yoel Bergman (Associate Researcher at the Cohn Institute, Tel-Aviv University/Independent Scholar): Closing US Gaps in Propellant Production for Rockets, at the Beginning of WWII

D. Session: Development of Oil and Gas Technologies for Improving the Economic and Political Situation of Countries and Regions (2)
Organizer: Eldar Movsumzade (Ufa State Petroleum Technological University)

- Revel-Muroz Pavel (JSC «TRANSNEFT»): Development of Energy Saving Technologies in Oil Pipeline Transportation
- Belyaeva Albina (Bashkir State Agrarian University): European Experience of Processing of Acid Tars to the Secondary Fuel
- Adigozalova Vafa / Mamedyarova Kamila / Polyakova Lyudmila (Azerbaijan State Academy of Physical Culture and Sport): Unique Ancient Oil from Azerbaijan
Tuesday, 18th August 2015
09.30–11.00

A. Session: The Quest for Energy – Policy, Production, and Measuring
- Robert Belot (Université de Technologie de Belfort-Montbéliard): The Atom as a Utopia and a Theophany for France After the Second World War
- Vahur Mägi (Tallinn University of Technology): First Steps to the High-Technologies in Estonian Oil Shale Industry
- Catalin Nicolae Mihai (Transilvania University of Brasov): Electrical Measuring Equipment Development in Romania

B. Session: Different Angles on Mobility in Modernity
- John Laurence Busch (Independent Historian): Liberté et Mobilité pour Humanité: The Exponential Transformation of Political Freedom by the First High Technology in History
- Daniel Uziel (Haifa University/Ben Gurion University): The German Aviation Industry of the Third Reich as a High-Tech Industry
- Bartosz Wiesław Zakrzewski (Motor Transport Institute): Electric Van from Stalowa Wola – Stal 158

C. Session: Tenth Annual ICOHTEC Symposium on the Social History of Military Technology (4)
Organizer: Bart Hacker (Smithsonian Institution); Co-Organizer: Ciro Paoletti (Italian Commission of Military History)
- Philipp Aumann (Peenemünde Historical Technical Museum, Germany): Vision and Tradition: Rocket Development as a Cultural Revolution in the History of German Armaments
- Brian E. Crim (Lynchburg College, Virginia): From Peenemünde to Huntsville: German Specialists and the Culture of Cold War Science
- Vasily Borisov (Russian Academy of Science, Moscow): Russian Electronics between the Military-Industrial Complex and the Market.

D. Session: Labour-Power: Shifting Perspectives
- Marina Cionca (Transilvania University of Brasov): Losing Skilled Labor in the Strive for New Technologies. A Case Study
- Liliia Zemnukhova (Russian Academy of Sciences): When Professional Community Changes the Rules: the Case of Russian IT Sphere
E. Regional History Studies I—Japan (HISTELCON)

Chair: Geselowitz
- Geselowitz / Baal-Schem: Welcome to HISTELCON 2015
- Nagata: A systematization of Industrial Technologies and Features of Technology development of Japan
- Imura / Uno / Tasaki / Shirakawa: History of Japan’s First Commercial Hydroelectric Generation at Keage Power Station
- Kawamoto: Battle on the Right to the Invention of TN Mode in LCD

11.00-11.30: Coffee Break

11.30–13.00

A. Plenary Session: Computer Meets Human
- Janine Noack (Centre for Contemporary History Potsdam): The Role of Cold War Computer Technology in East and West German Militaries (1960s–1980s)
- Julie Wosk (State University of New York, Maritime College): Female Robots and Androids: Changing Technologies and Cultural Views

13.00–14.00: Lunch Break

14.00–19.00

Tour
Wednesday, 19th August 2015

09.30–11.00

A. Keynote Lecture

- Leo Corry (Tel Aviv University): From Turing’s Universal Machine to Turing’s Analogue Computer: The Father of Computer Science?

11.00–11.30: Coffee Break

11.30–13.00

A. Session: Designs on Medical Technology and Its Application

- Andrei Kalinitchev (University of Turku): Saving Human Lives: the Appliance of New Medical Technology in Fighting Lethal Diseases in the Governorate of St. Petersburg (Before WWI)
- Slawomir Lotysz (NIAS): “We Need to Think of What Exactly We Need to Plan”: Designing Pharmaceutical Consumption in Poland’s Centrally Controlled Economy, 1945–1989

B. Session: Different Approaches to Innovation

- Jürgen Poesche / Ilkka Kauranen (Aalto University): Complex and Recursive Recombination: Legitimization of Technology and Technological Innovation in the Occident from Antiquity to 1789
- Dikla Bytner (Tel Aviv University): The History of Modern Technology and the History of Modern Invention
C. Session: Tenth Annual ICOHTEC Symposium on the Social History of Military Technology (5)
Organizer: Bart Hacker (Smithsonian Institution); Co-Organizer: Ciro Paoletti (Italian Commission of Military History)

- Olufikayo Kunle Oyelade (University of Ibadan, Nigeria): The Nigerian Civil War and the Sociocultural Context of the ‘Ogbunigwe’ Missile
- Virginie Wanyaka Bonguen Oyongmen (Université de Yaoundé I, Cameroon): L’Armée Camerounaise et les Nouvelles Technologies de l’Information et de la Communication

D. Session: Making Music, Creating New Sounds
- Sonja Neumann (Deutsches Museum München): From Electronic Musical Instruments to Lethal Weapons and Back Again – Oskar Vierling (1904–1986) and High-Frequency Technology in 20th Century Germany
- Susan Schmidt Horning (St. John's University, NYC): Yesterday’s High Tech Is Tomorrow's Retro Tech: The Changing Fortunes of the Material Culture of Music-Making

E. Regional Studies II—Europe (HISTELCON)
- Vardalas / Geselowitz: The Trireme—High-Tech Weapon of the Ancient European Seas
- Kádár: Metro Line No. 1 (Budapest, Hungary)
- Sharygin / Sharygina: Siberian Electronic and Cultural Progress in the East Russia During the Last Century
- Rocchelli / Savini: The History of Electronics Reviewed Through the Study of the Life and Activities of the FIVRE-Marelli Company in Pavia

F. Human Factors in the History of Technology (HISTELCON)
- Guarnieri: The Rise of Light
- Jovanovic: Nikola Tesla and the problem of Human Energy
- Brewer / Geselowitz: The Engineering & Technology History Network (ETHN)
- Hasegawa/ Katsukawa / Suzuki: Japanese Innovation History from ‘One Step on ElectroTechnology’
13.00–14.30: Lunch Break

14.30–16.00

**A. Session: Structured Invention and Structuring Innovation**
- Peter Koval (Humboldt University Berlin): Obstacle Design and the Historiography of Technology
- Eduardo Perez-Molina (TCB-UPM): The Role of Patent Citations as a Historical Footprint of Technology
- Elitsa Stoilova (Plovdiv University): Education in Technology: New High-Technological Channels for Transfer of “Old” Technological Knowledge

**B. Session: Innovation in the Wake of War**
- Anthony Travis (The Hebrew University, Jerusalem): Capturing Nitrogen with Electrochemistry and High-Pressure Chemistry: New Chemical Technologies in the Early 20th Century
- Louise Karlskov Skyggebjerg (The Danish Museum of Science and Technology): World War I and Cross-Country Transfer of High Technologies
- Emily Brock (Max Planck Institute for the History of Science, Berlin): The Development of Marine Grade Plywood and the Environmental Impact of World War II Naval Small Craft

**C. Session: Tenth Annual ICOHTEC Symposium on the Social History of Military Technology (6)**
Organizer: Bart Hacker (Smithsonian Institution); Co-Organizer: Ciro Paoletti (Italian Commission of Military History)

- Paul J. Hoffman (US Air Command and Staff College, Alabama): Explaining Organizational Variation in Suicide Attacks, 2004–2013
- Krzysztof Kubiak (University of Jan Kochanowski, Poland): The Western Core of NATO: Between High Technology Armies and Post-Heroic Societies
**D. Session: High Technology in Long-Term Perspective and Cultural Practice – Lessons from the History of Infrastructure**

Organizer: Andreas Marklund (The Danish Post & Tele Museum)
Chair: Mogens Rüdiger (Aalborg University Denmark)

- Andreas Marklund (The Danish Post & Tele Museum): Historicizing Infrastructure after the Material Turn
- Sanne Aagaard Jensen (The Danish Post & Tele Museum, University of Copenhagen): Securing the Alliance With Infrastructure and Technology: Infrastructure Programs and Communications Security on the NATO Agenda in the 1950s
- Zef Segal (Ben-Gurion University/the Hebrew University): The mid-19th century annihilation of space: The railway infrastructure delimitation of territorial identities in 19th-century Germany
- Comment

**E. History of Computing and Related Components (HISTELCON)**

- Bencic / Hanzek / Fajt: The First Remote Recording of Gramophone Records in Europe (Zagreb, 1927)
- Shilov / Silantiev: Logical Mmachines: Predecessors of Modern Intellectual Technologies
- Okuda: Vicissitude of Magnetic Tape Data Storage: Comparison with Video Tape Recording
- Savini / Savini: Short History of 3D Printing, a Technological Revolution Just Started

**F. History of Telecom (HISTELCON)**

- Makhrovskiy: The 120th Anniversary of the Invention of Radio by A. S. Popov: From Telegraph Apparatus to Future Communications Technologies
- Borisova: Beginning of Soviet Broadcasting and First Soviet Radar Projects as Example of State Influence on Innovations
- Hochheiser: The Telephone in America to 1970: from High Technology to a Part of Everyday Life
- MacRae / Noll: Bell Laboratories, Incorporated: 1925–1984—New Jersey’s Innovation Factory

16.00–16.30: Coffee Break

16.30–18.30

**Prize Winners’ Sessions**

20.00–22.00

**Jazz Night**
Thursday, 20th August 2015

09.15–11.00

A. Session: Universality in Computational Theory
Organizer: Arie John Mor-Wurm (Achva Academic College)

- Arie John Mor-Wurm (Achva Academic College): Universality in Leibnitz Theory
- Oded Koren (Shenkar - Engineering, Design. Art): From Charles Babbage’s Analytical Engine to Turing Imitation Game
- Boaz Tamir (Bar Ilan University): Universal Circuits in Classical and Modern Computers
- Israel Belfer (Ben-Gurion University of the Negev): From Mathesis Universalis to Universal Information

B. Session: Mathematics, Science-Fiction and Technology

- Emiliya Todorova Karaboeva (Plovdiv University/Eindhoven Technological University): Pathfinders of the Future (Technological Future in Socialist Science Fiction)
- Eufrosina Otlacan (CRIFST, Romanian Committee for History of Science and Technics): About Theoretical Hydrodynamics and Professor Victor Valcovici (1885–1970)
- Special Poster Presentation: Lilia Ponomarenko (National Technical University of Ukraine): Up-to-date State of Information Technologies Formation: Contribution of Academician V.E. Lashkarev to Discovery of p-n junction

11.00–11.15: Coffee Break
11.15–13.00

**A. Session: Presence and Evolution of Air Pollution Damage on Vegetation in the Valley of Mexico: Historical Summary**

Chair: María de Lourdes de la Isla de Bauer (Colegio de Postgrados. Teaching and Research in Agricultural Science)

- María de Lourdes de la Isla de Bauer (Colegio de Postgrados. Teaching and Research in Agricultural Science): Detecting the Consequences of Air Pollution in Plants: The Mexico City Area
- Abel Quevedo Nolasco (Colegio de Postgrados. Teaching and Research in Agricultural Science): Wind Patterns and Ozone Concentrations Southern Mexico City
- Dionicio Alvarado Rosales (Colegio de Postgrados. Teaching and Research in Agricultural Science): Fir Forest Decline and Death at the Desierto de los Leones Park, Distrito Federal

**B. Session: Conceptualizing Modernity in Architecture**

- Agnieszka Rumież (Poznan University of Technology): How to Tame Mathematical Methods in Architectural Design
- Bartha Biborka (Transilvania University of Brasov): Integration of Vernacular Concepts in the Development of Romanian High-Tech Rural Communities
- Victoria V. Cotorobai (Technical University Gheorghe Asachi from Iasi): High Tech & Paradigms Shift in Buildings Area

13.00–14.30: Lunch Break

14.30–16.00

**ICOHTEC General Assembly**

20.00–22.00

**Gala Dinner**