

Technological Drive from Past to Future?

50 Years of ICOHTEC

The 45th ICOHTEC Symposium

***17 – 21 July 2018, Jean Monnet University
Saint-Étienne, France***

Scientific Programme

v26-A / 11 July 2018

Editors Timo Myllyntaus, Robert Belot, Aurélie Brayet and Luc Rojas

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Wednesday, 18 July

9:00 – 10:30

W1A Railways in the Making of Modern Societies 1

Location: H 13

Organiser: Timo Myllyntaus

Chair: Timo Myllyntaus

The Carrying Trade and the First Main-Line Railways in England, 1840-1850

Ms. Carolyn Dougherty

The Coming of the Mail and the News: Railways and Cultural Change in Rural Great Britain, 1840-1914

Professor Robert M. Schwartz

Portuguese Metropolitan and Overseas Railways and Harbours as Portals of Globalization, 1850s – 1910s

Researcher Hugo Silveira Pereira

Railways as Tools of Direct and Indirect Empires in Africa: Angola and Mozambique

Professor Bruno J. Navarro

1

W1B The Dream of Flight in the Popular Imagination

Location: H 21

Organiser: Tom Crouch

Chair: Tom Crouch

"Like all novices, we began with the helicopter: "An Ancient Toy That Inspired the Air Age

Dr. Tom Crouch

Imaging Faster-Than-Light Travel and Fictional Spaceship Designs

Dr. Margaret Weitekamp

Fascinating Toys: Flying Cars Are Dead but They Will Always Be Fun

Researcher Dorothy Cochrane

W1C Encounters of New War Machines and Fictional Armored Shields

Location: HR 5

Organiser: PC

Chair: Norman Aselmeyer

Development and Evolution of Seaplanes in Europe during World War One

Ph.D. candidate Marion Weckerle

Nothing at Risk?: Experiencing World War I in VR

Dr. David Howell

Lionization, Professionalization, and Mechanization: Three Contrasting Visions of Powered Armor in Speculative Fiction

Ph.D. candidate Ian Boley

WID Electricity in Cultural and Political Development

Location: H 26
Organiser: PC
Chair: Alex Lesanu

Electricity in the Making of Post-colonial Spain, 1880 – 1936

Dr. Daniel Pérez Zapico

Politics of Urban Electricity Grid in Ottoman Istanbul during the World War I

Ph.D. candidate Duygu Aysal Cin

The Heritage of the “Networks of Power”. Reading Monuments as Sources of the History of Technology

Dr. Michael Hascher

Hydroelectric Projections. The Culture of Water Power in 1950s European Industrial Films

Ph.D. candidate Fabian Zimmer

WIE Technological Mindset in Political Activism and Miracles in Cookery

Location: E 11A
Organiser: PC
Chair: Marly Kamioji

The Fullness of Containment: Investigations in the Diverse Global Social Formations Shaping World Opinion and Otherwise Confronting the Political Might of Nuclear Weapons Technology

Dr. Julie Boddy

"Kitchen Technology: A Biography of the Couscous Pot"

Dr. Sylvie Durmelat

WIF Energy and the Environment: Conflict or Compatibility

Location: E 11B
Organiser: Anthony N. Stranges
Chair: Anthony N. Stranges

How Wind Energy Contributes to the Reduction of CO₂ Emissions

Dr. Anthony N. Stranges

The Atmosphere as a Commons – a Way to View Climate Change

Researcher Petter Wulff

Energy Trilemma: Past and Future

Dr. Elena Helerea

Wednesday, 11:00 – 12:30

W2A *Digital Uses and Tools for Historical Knowledge Management*

Location: H 21
Organiser: Florent Laroche
Chairs: Michel Cotte and Florent Laroche

Synthesis on 3D Modeling and Simulation applied to the History of Technology

Prof. Alain Michel

**Comparative History of Industrial Cultural Landscapes:
The Question of Knowledge Modelling (Semantic Web and Virtual Reality)**

Director Sylvain Laubé, Ph.D. cand. Bruno Rohou, Ph.D. cand Marie Abiven, Director Ronan Querrec,
and Director Serge Garlatti

Ethnographic Field Methods, Digital Technologies and the Interpretation of Heritage

Prof. Laurier Turgeon

The Policy, the Digital Technology and the Public

Director Pierre-Yves Guillot and M.A. Charlotte Soubeyrand

W2B *Railways in the Making of Modern Societies 2*

Location: H 13
Organiser: Timo Myllyntaus
Chair: Hugo Silveira Pereira

The Electrification Try-outs in Stockholm, 1905-1907

Lecturer Roine Viklund

Conquering the Land: Nazi Germany's Railways in the Far North

Ph.D. candidate Mari Olafson Lundemo

Railway and Internet Infrastructure – Similarities and Differences

Researcher Olli Sjöblom
Professor Reima Suomi
Professor Timo Myllyntaus

W2C *Technified Bodies at Work*

Location: H 14
Organiser: Karsten Uhl
Chair: Karsten Uhl

Body against Soul? German Psychotechnics and the "Whole Worker"

Dr. Kevin Liggieri

Discipline and Alcohol: Power, Bodies, and Infrastructure Construction around 1900

Dr. Eike-Christian Heine

History of Technology Meets History of the Body – Miners' Bodies in the Age of Rationalization

Dr. Lars Bluma

Production Technology and the Body of the Shipyard Worker

Dr. Christian Ebhardt

W2D Approaches to Technological Utopias and Paradigms

Location: H 11
Organiser: PC
Chair: Antoni Roca Rosell

Utopias and Dystopias of Media Technologies in History

Dr. Jukka Kortti

Back to the Future: Collapse and Technological Utopia in Science Fiction (In French)

Professor Bertrand Guillaume

Internet Imaginary: Reflections on Masoud Khayam and Technology's Horizon of Expectations

Professor Babak Rahimi

Throwing Light on Photonics: Genealogy of a Technological Paradigm

Dr. Marcin Krasnodebski

Hyperobject and Hyperhistory: Remnants of Hiroshima

Dr. Mitsuhiro Hayashi

W2E Technological Momentum: From Gunpowders to Modern Explosives and Propellants 1

Location: HR 5
Organisers: Brenda Buchanan, Yoel Bergman and Steven Walton
Chair: Yoel Bergman

Shotgun Momentum? Diversity in Early Modern Gunpowder Mixtures

Professor Steven Walton

Exhuming Trodden Earth: Technologies of Saltpeter Production in Korea, 1592-1698

Ph.D. candidate Hyeok Hweon Kang

Future Scenarios for the Safeguarding and Musealisation of the Vale de Milhaços Gunpowder Factory

Researcher Graça Filipe

W2F Electronics and Computers in History

Location: H 26
Organiser: PC
Chair: Susan Schmidt Horning

Monster Computer vs. Grassroot Computing. The Early Computer Culture in the US, 1944-1953

Prof. Richard Vahrenkamp

Exploring History of Computing with Prototypes

Dr. Zbigniew Stachniak

50 Years of the Development of Microelectronics and Society

Professor Vasily Borisov

Rise and Fall of the Romanian State-owned Micro/nanoelectronics

Dr. Andreas Wild

W2G Technology as a Tool and a Target of Intelligence Agencies in the Second Half of the 20th Century

Location: E 11A

Organiser: Miroslaw Sikora

Chair: Kristie Macrakis

Commentator: Kristie Macrakis

Stasi and Eavesdropping in the GDR in the Years 1956 to 1989

Researcher Detlev Vreisleben

Hungary's Participation in the Technology Transfer During the 1970 – 1980 Period

Dr. Zsuzsanna Borvendég

Obtaining Strategic Intelligence by SIGINT – Surveillance of the President of Serbia S. Milošević by Croatian Intelligence Agency

Dr. Gordan Akrap

Comecon's Complex-Program for Scientific-Technical Progress 1986-2000 and the Role of the Intelligence Services' Community of Warsaw Pact

Dr. Miroslaw Sikora

W2H Reassembling Crops for Changing Climates

Location: E 11B

Organisers: Harro Maat and Maria do Mar Gago

Chair: Francesca Bray

Following the Cloud: Long-term Trends of Making Coffee Grow in Colonial Angola, 1898-1939

Dr. Maria do Mar Gago

Jack of no Trade, yet a Probable King?

Dr. John Lourdusamy

Cultivating Oranges and Whiteness in the Global Mediterranean: South African Citrus Growers' Cooperative and Californian Practices of Cloning

Dr. Tiago Saraiva

Temperate and Tropical Rice across the Atlantic: How the Americas became a Breeding Site for Asian and African Rice Farmers

Dr. Harro Maat

Wednesday, 13:30 – 15:00

W3A *The Conquest of Hydraulic Power and its Place in the History of Mankind (in French)*

Location: H 21

Organisers: Alexandre Herlea and Mircea Ivanoiu

Chair: Alexandre Herlea

Hydraulic Turbine Technology Disruption to Cope New Power Generation Paradigms

Professor François Avellan

Exploitation of Hydraulic Energy in Rural Traditional Technology in Romania: Resemblance and European Synchronism

Dr. Mircea Ivanoiu

Professor Alexandre Herlea

Aurel Bărglăzan (1905-1960), Founder of the Hydraulic Machinery School in Timisoara, Romania

Professor Mircea Octavian Popoviciu

Hydropower Infrastructure on the Upper Course of the Dniester River: Historical Evolutions and Perspectives for the Ukraine – Republic of Moldova Relations

Dr. Dorin Duscic

W3B *Railways in the Making of Modern Societies 3*

Location: H 13

Organiser: Timo Myllyntaus

Chair: Robert M. Schwartz

Railways and Global Integration: Remarks from an African Historian's Perspective

Researcher Norman Aselmeyer

The Indian Railways: Negotiating Space & Time in a Colonial Context

Researcher Vanshica Kant

The Biggest Railway Catastrophe in the History of Romanian Railways: Context, Causes and Consequences

Researcher Eduard Cotorobai

Professor Liviu Alexandru Sofonea

Professor Victoria Cotorobai

W3C *Plastics, Emotions and Consumer Society*

Location: H 14

Organisers: Maria Elvira Callapez, Günter Lattermann and Stefan Poser

Chair: Stefan Poser

Historic Surrogates (“Ersatzstoffe”) and the Image of Plastics Today

Dr. Günter Lattermann

Building the History of the Portuguese Plastic Industry through Material Testimonies

Dr. Inês Soares

Professor Susana Sá

Professor Joana Ferreira

Plastics Hand in Hand with Consumers

Dr. Maria Elvira Callapez
Graduate student Sara Marques da Cruz
Graduate student Marta Martins Neto

W3D Industrial Strategies from the Past to the Future

Location: H 11
Organiser: PC
Chair: Lars Bluma

“Two Centuries of Progress and Adaptation: The Evolution of the Société d'Encouragement pour l'Industrie Nationale”

Dr. Andrew Butrica

Industrial Strategy, Techno-nationalism and the Limits of Economic Liberalism under Thatcher

Ph.D. candidate Tom Kelsey

Economics and the Fourth Industrial Revolution: a History of the Future?

Professor Simone Fari

Future Expectations in German Textile Industry: The Role of History on the Cusp of the 4th Industrial Revolution

Ph.D. candidate Robert Peters

W3E Technological Momentum: From Gunpowders to Modern Explosives and Propellants 2

Location: HR 5
Organiser: Brenda Buchanan, Yoel Bergman and Steven Walton
Chair: Steven Walton

An Early Industrial State-owned Enterprise: The Royal Gunpowder Mills Waltham Abbey, 1787–1816

Ph.D. candidate Sabrina Fröhlich

Did Making Gunpowder Make Good Revolutionaries? Using Saltpeter to Measure Popular Support for the American Revolution

Dr. David Hsiung

Comments

Dr. Brenda Buchanan

W3F Reception of Novelties in Radio, Broadcasting and Communication

Location: H 26
Organiser: PC
Chair: Jan Hadlaw

Radio, Home, and Country: The Listener, the Medium, and the Network, 1922 – 1960

Professor Anne MacLennan

Dark Side of AMPEX

Mr. Roman Artemenko

W3G New Approaches to Industrial Heritage

Location: E 11A
Organiser: PC
Chair: Michael Hascher

Visual Memories of the Marble Industry – Using Cinema and Photography in Mining Heritage Studies

Ph.D. candidate Armando Quintas
Ph.D. candidate Alexandre Ramos

The Structural Rehabilitation of Tharsis Pier (Huelva, Spain), Monument of the Spanish Industrial Heritage

Ph.D. candidate Aurora Donoso-Sequeiros
Dr. Narciso Vazquez-Carretero

Photography and UNESCO Industrial Heritage World Heritage Sites of the Iberian Peninsula

Ms. Sheila Palomares Alarcón
Mr. Pietro Viscomi

Thursday, 19 July

9:00 – 10:30

TIA Technical Democracy: What are its Antecedents and its Prospects? 1 (In French)

Location: H 21

Organiser: Pierre Lamard, Mathieu Tricot and Yves-Claude Lequin

Chair: Pierre Lamard

Commentator: Yves-Claude Lequin

100 Years of Projects for Home Automation: the Figure of the Kitchen

Ph.D. candidate Noémie Boeglin

Culinary Technical Gestures and Domestic Rationalization: the Art of Managing Everyday Life

Dr. Aurélie Brayet

“La conférence des directeurs” or the Tool according to Henri Fayol to Scientifically Lead a Big Company, 1888-1918

Dr. Luc Rojas

T1B West - East Transfer of Technology during the Cold War

Location: H 13

Organiser: Timo Myllyntaus

Chair: Timo Myllyntaus

The Tight Rope over the Iron Curtain: Technology Transfer between Finland and the Soviet Union during the Cold War

Professor Timo Myllyntaus

Duplication Model of Transfer of Western Technologies in Soviet Metallurgy, 1920-1940

Ph.D. candidate Irina Sheveleva

Soviet Bureaucracy and the Postwar Technological Transfer at the Soviet Periphery, 1944-1947

Researcher Alexandru Lesanu

Home Technologies and the Question of Technological Drive in State Socialism

Dr. Patryk Wasiak

T1C Plastics, Emotions and Consumer Society 2

Location: H 14

Organisers: Maria Elvira Callapez, Günter Lattermann, Stefan Poser

Chair: Maria Elvira Callapez

Plastics, Emotions, and the Oil Crises in the 1970s

Dr. Stefan Poser

Summertime, and the Living is Plastic: PVC and the Creation of a Summer Toy Industry

Ph.D. candidate Angela Cope

Plastics - Friend or Enemy of Humans? Case Study for Romania

Dr. Laura-Mihaela Lelutiu

Dr. Elena Helerea

T1D Manufacturing Industries, Management and Entrepreneurship

Location: H 11

Organiser: PC

Chair: Andrew Butrica

Technical Innovation as a Solution to Political and Economic Crisis: the Example of the Early Industrial Complexes of the Shūsekan Jigyō in Japan

Ph.D. candidate Céline Zuretti

The German Electrical Industry and the End of the Electric Car in Germany before World War I: The Example of the Automobile Company NAG in Berlin - Technological Development and Entrepreneurial Decisions

Researcher Thomas Irmer

T1E 13th Annual Symposium of the Social History of Military Technology 1

Location: HR 5

Organiser: Bart Hacker and Ciro Paoletti

Chair: Ciro Paoletti

Catapults still are not Atomic Bombs: Why does Technological Determinism Continue to Enthrall Military Historians?

Professor Kelly DeVries

“Neither Catapults nor Atomic Bombs”: Technological Determinism and Military History from a Post-industrial Revolution Perspective.

Professor David Zimmerman

From the Military Revolution to RMA: Technology, Military Institutions, and Society

Dr. Bart Hacker

T1F Technological Education and Exchange of Knowledge

Location: E 11A

Organiser: PC

Chair: Simone Fari

Instruments of Development: Indo-German Scientific Collaboration and Engineering Practices at IIT Madras

Professor Roland Wittje

The Harpist Clotilde Cerdà and the Promotion of Technical Education for Women in Barcelona, 1885

Dr. Antoni Roca-Rosell

The Role of Military School in the Development of Italian Technology during the 19th Century

Ph.D. candidate Elena Rinaldi

TIG Human Impacts on Nature and Landscape

Location: E 11B
Organiser: PC
Chair: Harro Maat

Silk Industry of Moscow Facing the Pollution of the Environment, Second Half of the 19th Century - Beginning of the 20th Century (In French)

Mrs. Olga Melnichenko

Industrialization of Slovakia and its Impact on the Environment during the Period of Socialism

Professor Ľudovít Hallon
Ph.D. candidate Michal Ďurčo
Dr. Miroslav Sabol

Revisiting Wars against Nature: Irrigation Works in Nantong County, 1950s-1970s

Lecturer Yu Qiao

Does Technology Shape under the Pressures of Farmers or Shaping Farmers under the Pressure of Technology? (In Spanish)

Ph.D. candidate Bruno Esperante Paramos

Thursday, 11:00 – 12:30

T2A Technical Democracy: What are its Antecedents and its Prospects? 2 (In French)

Location: H 21

Organiser: Pierre Lamard, Mathieu Triclot and Yves-Claude Lequin

Chair: Mathieu Triclot

Commentator: Pierre Lamard

History of Technocritics: A Series of Ideas and Arguments in the Francophone World, from 1900 to Nowadays

Dr. Alexandre Moatti

A Humain and Social Sciences Contribution to the Development of Technological Projects: “Ethnographic Design” and “Technical Democracy”

Dr. Mathieu Triclot

Ph.D. candidate Nicolas Simoncini

Dr. Bénédicte Rey

Another Technical Democracy is Possible: Approach of Responsibility by Ecofeminism

Dr. Marie-Pierre Escudié

Dr. Thomas Le Guennic

T2B 13th Annual Symposium of the Social History of Military Technology 2

Location: HR 5

Organiser: Bart Hacker and Ciro Paoletti

Chair: Bart Hacker

The Mortar and the Sword: Weapons in Fantasy and Reality

Professor David Ritchie

The Advantages of Brick Fortification, from Antiquity to the Modern Era

Professor Jean-Nicolas Corvisier

From Concept to Combat: The First Decade of the Medici Ducal Fleet, 1548–1558

Graduate student Andrew Tzavaras

T2C ICOHTEC Prize Session

Location: Amphitheater E 01

Organisers: Yoel Bergman, Hans-Joachim Braun and Elvira Callapez

Chairs: Hans-Joachim Braun and Elvira Callapez

Friday, 20 July

9:00—10:30

F1A Technical Democracy: What are its Antecedents and its Prospects? 3 (In French)

Location: H 21

Organiser: Pierre Lamard, Mathieu Triclot and Yves-Claude Lequin

Chair: Yves-Claude Lequin

Commentator: Mathieu Triclot

Participatory Research, Part of a Deliberative Technical Democracy

Dr. Bertrand Bocquet

Gamma Detector in the Service of Technical Democracy: A Case Study on the Mine Waste Inventory in Piriac-sur-Mer (Loire-Atlantique, France)

Dr. Saliha Hadna

Mobilities, Circulations and Technological Democracy. Building the Discourse of Technology in the United States: Identification of the Process and Archives in the 20th and 21th Century

Dr. Vincent Dray

F1B Turns in the Energy Supply: Past, Present and Future 1

Location: H 13

Organiser: Timo Myllyntaus

Chair: Timo Myllyntaus

Hydroelectricity, Industrialization and Regional Development in São Paulo

Professor Gildo Santos

Energy, Desalination and Solar Ponds: Success and Oblivion of Salts and Solar Power in Atacama Desert, Chile and Beyond, 1907-1981

Dr. Nelson Arellano

The Hydroelectric Matrix in Brazil: Benefits and Drawbacks of the Interference of Public Power

Ph.D. candidate Alexandre Ricardi

F1C The History of Repair Cultures and the Temporalities of Technology

Location: H 14

Organiser: Stefan Krebs

Chair: Hans-Joachim Braun

Tero-Cultures: The Temporalities of Maintenance

Professor Gabriele Schabacher

Cultures of Self-Repair: Community, Identity and Appropriation of Technology

Dr. Stefan Krebs

Temporal Strata of Technologies: From Repair and Obsolescence to Questions of Technology's "Afterlife"

Professor Heike Weber

F1D Technological Innovations in Architecture

Location: H 11
Organiser: PC
Chair: Hermione Giffard

Aesthetics and Acoustics: A History of the Concert Hall as an Epistemic Object

Dr. Darryl Cressman

Carrier Weathermaster System Air-conditioning in Postwar Modern Architecture in Finland in the 1950s

Ph.D. candidate Seija Linnanmäki

From the Place of "Production Machines" to the Place of "Dream Machines": The Factory Space as a Praise for Emptiness

Professor Raffaella Maddaluno

Green at Heart: From Old Smokestack Industry to Platforms of Sustainable Urban Future

Dr. Markku Norvasuo

F1E 13th Annual Symposium of the Social History of Military Technology 3

Location: HR 5
Organiser: Bart Hacker and Ciro Paoletti
Chair: Ciro Paoletti

Kriegsspiel Goes forth: Notes on the Early History of Professional Wargaming in the British Army

Professor Jorit Wintjes

The First Ottoman Pre-dreadnought: The Abd-al-Kadar

Professor Esat Arslan

F1F Humans Encountering Medical and Psychological Technology

Location: H 26
Organiser: PC
Chair: Donna Drucker

Technology in Health Care Facilities and Environment of the Patient

Dr. Agata Gawlak
Researcher Magda Matuszewska
Ph.D. candidate Paulina Szuba

Technology and Expression of Love: Impact and Consequence of Technology on Love and Subsequent Human Emotions

Dr. Rituparna Das

The History of Plasma in the Context of Sciences

Ph.D. candidate Anna Manukyan

F1G From Insights to Technology to Technological Futurism

Location: E 11B
Organiser: PC
Chair: Jukka Kortti

The Historical Significance of Korolyov Space Museum Collection, Zhytomir, Ukraine

Researcher Olena Zosimovych

Future Mobilities and the Role of Historians

Professor Simone Fari
Researcher Massimo Moraglio

F1H How to Write Global History of Technology? Interactive Discussion Session

Location: Amphitheatre E 01
Organiser: Jonas van der Straeten
Chair: Jonas van der Straeten

Technology, Tradition and Deconstructing Arab Modernity

Ph.D. candidate Shorouk El Hariry

From Fragmentation to Comprehensiveness:

Towards a Profound and Well-balanced African History of Technology

Ph.D. candidate David Drengk

History of Technology on Modern China: The State of the Art

Ph.D. candidate Wei Wu

State of the Art: A Global History of Technology about India

Ph.D. candidate Aloy Buragohain

Inventive Traditions and Dreams of Modernity:

Current Trends in the History of Technology of Latin America

Ph.D. candidate Alejandra Osorio

Saturday, 21 July

9:00 – 10:30

S1A Sustainable Buildings and Innovations 1 (in French)

Location: H 21

Organisers: Richard Cantin and Pierre Michel

Chair: Pierre Michel

Mosaic Tiles: The Technique

Graduate student Indio Vignes

The Carpenter's Trade, between Tradition and Modernity: Alternating Training in Maisons Familiales Rurales

Mrs. Marie Pachtém, Mr. Denis Amblard, Dr. Richard Cantin

Double Windows: An Old Technical Answer for Today's Energy Issues

Dr. Richard Cantin, Ph.D. candidate Mike Coillot, Mr. Mohamed El Mankibi

S1B Turns in the Energy Supply: Past, Present and Future 2

Location: H 13

Organiser: Timo Myllyntaus

Chair: Gildo Santos

Crude Oil Technology Development and Globalization - Romania a Pawn on the Chessboard of Big World Powers

Ms. Elena-Angelica Dinu

Sociotechnical Imaginaries of Oil in Finland in the 1950s

Ph.D. candidate Tanja Riekkinen

Technologies of the Future: Based on Modern Methods of Quantum Chemistry

Professor Eldar Movsumzade, Ph.D. candidate Galina Kolchina, Prof. Olga Poletaeva, Ms. Anastasya Bakhtina

S1C Technological Nostalgia and Post Industrialist Idealism

Location: H 14

Organiser: PC

Chair: Roine Viklund

The Kind of Problem Innovation Is: Tracing the Intellectual Contributions of Jane Jacobs outside Urban Planning

Ms. Joanna Szurmak

Seeing the Past in Stages: Stagecoaches and Freight Wagons as Frontier Nostalgia in Western Canada, 1910-1960

Dr. Ben Bradley

History of Lifts in Poland – Development of Lifting Technology and Protection of Technical Heritage in the Context of Contemporary Security Requirements and Regulations

Ms. Katarzyna Pietrzak

S1D Social Values Matter: Biotechnology and Medical Technologies

Location: H 11
Organiser: PC
Chair: Anne MacLennan

Stubborn Technology: Barrier Contraceptives in Twentieth-Century American History

Dr. Donna Drucker

Ear Trumpets: The Obsolete, the Nostalgic, the Protective

Dr. Magdalena Zdrodowska

S1E 13th Annual Symposium of the Social History of Military Technology 4

Location: HR 5
Organiser: Bart Hacker and Ciro Paoletti
Chair: Bart Hacker

World War I and the Improvement of the Italian Canal and Port System, 1915-1918

Dr. Ciro Paoletti

Gender and the Gun: Feminizing Cannon in the First World War

Researcher Bruno De Corte

Designing with Purpose: Human Factors Engineering in NASA

Dr. Layne Karafantis

17

S1F Digitalisation: Revolution of Contemporary History

Location: H 26
Organiser: PC
Chair: Heike Weber

Magical Things. Demons inside the Machine

Dr. Heiko Schmid

Digital Technologies and Sociotechnical Barriers: Some Lessons from the Soviet Experience

Researcher Liliia Zemnukhova

Passing the Power: Guardians of Journalism Production Expertise at U.S. Newspapers, 1975-2015

Dr. Susan Keith

From Kodak to Instagram: How Analog Photography Created Visual World

Ph.D. candidate Nevena Ilic

S1G Search for Pure Potable H₂O: Development of Water Supply Systems

Location: E 11A
Organiser: PC
Chair: Eike-Christian Heine

Technological Advancements in Filtration Techniques in the Early Modern Period

Dr. Suryya Manzoor

Technological Advancements in Ancient Water Systems of Balochistan

Ph.D. candidate Muhammad Sohail

History of Methods and Technologies of Water Purification in Institutes of NAS, Ukraine

Ph.D. candidate Mariia Stankova

SIH Unusual Sounds: Girls with Electric Guitars, Finnish Synthesizers and New Issues in the Development of Computer Music

Location: E 11B

Organiser: Hans-Joachim Braun

Chair: Stefan Krebs

Garage Girls All Over the World Playing with Sound and Technology in the 1960s

Professor Susan Schmidt Horning

Erkki Kurenniemi's Electronic Musical Instruments and their Role in Electroacoustic Music in Finland during the 1960s and 1970s

Researcher Mikko Ojanen

Images and Utopias of the Digital Musician in the History of Music Software

Researcher Andreas Möllenkamp

Computer Music and Improvisation: A Contradiction?

Professor Hans-Joachim Braun

Saturday, 11:00—12:30

S2A Sustainable Buildings and Innovations 2 (in French)

Location: H 21

Organisers: Richard Cantin and Pierre Michel

Chair: Richard Cantin

Wearing the Machine: Technological Evolution from Transportable to Wearable Machines

Ph.D. candidate Nada Ghribi

Influence of BIM-related Digital Technologies on Real Estate Management

Mr. Pierre Michel, Ph.D. candidate Xin Gong, Dr. Richard Cantin

Comments

Mr. Mohamed El Mankibi

S2B Turns in the Energy Supply: Past, Present and Future 3

Location: H 13

Organiser: Timo Myllyntaus

Chair: Nelson Arellano

Greenpeace and its Anti-nuclear Campaigns in Brazil, 1991 – 2011

Ph.D. candidate Marly Kamioji

Science, Energy and Knowledge: An Analysis of the Scientific Literature on the Synthetic Fuels Production Technologies in the 1970s and 1980s in the United States

Dr. Francesco Gerali

A Positive Example of the Operation of Binomial Political Authority: Powerful Technologies and Renewable Energies in the Period of Totalitarianism in Romania

Professor Victoria Cotorobai

S2C Tourism – What Can History of Technology Contribute?

Location: H 14

Organiser: Stefan Poser

Chair: Per Lundin

Touristic Space for a Deprived Period: Showcasing a Chapter of the History of Iron Technology in Ancient Gaya/Kaya, South Korea

Professor Constantin Canavas

Confronting Class: The American Motel in Early Post-war Sweden

Dr. Per Lundin

Technological Heritage: Question its Role in Tourism and in the Emerging Museums of the 21st Century

Dr. Maria Sampaio da Luz

S2D Beauty of Products: Technology and Design

Location: H 11
Organiser: PC
Chair: Layne Karafantis

An Emotional Tour of the Plart Collection

Ms. Pina Di Pasqua
Ms. Alice Hansen
Mrs. Antonella Russo

From Industrial Aesthetics to Design: the Teaching of Arts Applied Industry in Portugal. A Case Study – the Portuguese Ceramics

Professor Maria Helena Souto
Professor Ana Cardoso de Matos

S2E 13th Annual Symposium of the Social History of Military Technology 5

Location: HR 5
Organiser: Bart Hacker and Ciro Paoletti
Chair: Ciro Paoletti

Studying Armor Penetration to Advance Organizational Need – Three Influential US and German mid-WWII Studies-Compared

Dr. Yoel Bergman

Anglo-American Bombers over Romania in the Spring and Summer of 1944

Professor Traian Constantin Dumbraveanu

An Armoured Military Technological Twist

Professor Matitiahu Mayzel

With UN Air Support: Challenges, Changes, and Perspectives

Mr. Enrico Magnani

S2F Taming Sounds and Transmitting Speech

Location: H 26
Organiser: PC
Chair: Darryl Cressman

From Hal to Her: Cinematic Representations of Synthetic Speech

Ph.D. candidate Benjamin Lindquist

“Blueprint for Modern Living”: Promoting Residential Telephone Service in the United States, 1945-1965

Dr. Jan Hadlaw

S2G Support of Science, Technology and Society: Interactions and Innovations

Location: E 11A
Organiser: PC
Chair: Esat Arslan

Science and Technology History Studies in the National Academy of Science of Ukraine

Professor Alla Lytvynko

**Contributions of Romanian Researchers and Applicants in the Evolution of the Complex Forum
ICOHTEC**

Professor Liviu Alexandru Sofonea

Informatics in Romania: Theoretical Developments and Applications

Professor Eufrosina Otlacan

Petre (Pierre) Sergescu: Science Historian and Promoter of the Discipline

Professor Alexandre Herlea

***S2H Commanded Nature: Technology and the Environment in Authoritarian
Regimes***

Location: E 11B

Organiser: Viktor Pal

Chair: Slawomir Lotysz

Managing Natures in Interwar Poland: The Case of Pripet Marshes

Professor Slawomir Lotysz

Socialist Landscape Planning: The Construction of Mechanic Forest in Southern Moravia in the 1970s

Dr. Jiri Janac