

8th Tensions of Europe (TOE) Conference

Conference Theme: Borders and Technology

Photo: courtesy of Yannis Behrakis



Athens, Greece
7-10 September 2017

Department of History and Philosophy of Science
National and Kapodistrian University of Athens

The Conference is supported by:

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Philosophy of Science

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Welcome Note

Dear participant,

We gladly welcome you to the 8th Tensions of Europe (TOE) conference, which brings together historians of technology and other scholars from many countries of Europe and other areas of the world. The TOE network dates back to 1999 discussions and initiatives, which culminated in several thematic workshops and an international conference in Budapest (2004). Since then several large TOE conferences have been organized: Lappeenranta (2006), Rotterdam (2007), Lisbon (2008), Sofia (2010), Paris (2013), Stockholm (2015).

A number of collaborative research projects have been important to the development of the TOE network. Most notable was the European Science Foundation Eurocores programme *Inventing Europe: Technology and the Making of Europe, 1850 to the Present*, which involved a great number of TOE researchers. Drawing partly on the findings of *Inventing Europe*, the six-volume book series *Making Europe: Technology and Transformations, 1850-2000* (Palgrave) aims at a larger audience, focusing on the dissemination of a new understanding of Europe. Also a significant contribution is the *Inventing Europe: European Digital Museum for Science and Technology*, which relies on collaborations with some of the leading history of science and technology museums in Europe. The Dutch Foundation for the History of Technology has played an important role in supporting the network in all these endeavors.

The organization of the Athens TOE conference benefits greatly from a new round of international collaborative research projects, which rely heavily on the participation of scholars from the TOE network. As such, it builds on the achievements of earlier TOE network conferences just as it seeks to usher in adjusting the network to new research challenges and opportunities. We hope that this conference will allow for productive interaction between old and new friends and colleagues.

Welcome to Athens!

Aristotle Tympas

Chair of the 8th TOE conference Organizing Committee

Acknowledgements

We are grateful to renowned photographer Yannis Behrakis for the permission to use a photograph of his on the conference poster and program (front cover).

We are very thankful to Panos Eleftheriou for his help with the design of the conference website, poster and program.

Tensions of Europe (TOE)

Tensions of Europe is an open network of scholars interested in the history of technology and related themes, especially in connection to the making of Europe. For further information (and to register as a member) see the website www.tensionsofeurope.eu.

Management Committee of Tensions of Europe

Andreas Fickers

Alexander Gall

Dagmara Jajesniak-Quast

Elena Kochetkova

Leonard Laborie

Aristotle Tympas

Erik van der Vleuten

Nina Wormbs (chair)

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Jan Korsten, Business Director, Foundation for the History of Technology (SHT), the Netherlands

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Ermioni Frezouli, Doctoral Researcher, Department of History and Philosophy of Science, National and Kapodistrian University of Athens, Greece

Vasilis Galis, Associate Professor in the 'Technologies in Practice --TIP' group, IT University of Copenhagen, Denmark

Spyros Tzokas, Postdoctoral Fellow, Institute for Mediterranean Studies - Foundation of Research and Technology (IMS-FORTH), Greece

Maria Rentetzi (chair of the Local Supporting Committee), Associate Professor in History and Sociology of Science and Technology, Department of Humanities, Social Sciences, and Law, School of Applied Mathematics and Physics, National Technical University of Athens, Greece

Conference Theme

The 8th Tensions of Europe (TOE) conference has as its main theme the history of the relationship between borders and technology. Sessions include papers on the history of connections between national borders and transnational infrastructures, hidden technological linking and delinking that reinforced or challenged border delineations and demarcations, the relationship between borders and technologically-induced environmental crises and disasters, the virtualization of borders and the territories that they contain through the use of electronic and related technologies, geopolitics and technology, the redefinition of borders due to the use of technology (and vice versa), all the way from the production to the circulation and use of goods and commodities. Sessions of the conference also include themes that fall under the general agenda of the TOE network, e.g. transnational histories of technology, histories of European infrastructures and networks, histories about the environment-technology relationship, the democracy-technology connection, conflicting interests and technology, technology and hidden integration, technology and culture, gender and technology, technology and ethnicity, technology and disability.

Program Committee of the 8th Tensions of Europe conference:

Stathis Arapostathis (chair), Assistant Professor of History of Science and Technology, Depart of History and Philosophy, National and Kapodistrian University of Athens, Greece

Erik van der Vleuten, Professor of History of Technology, School of Innovation Sciences, Eindhoven University of Technology (TU/e), the Netherlands

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Elitsa Stoilova, Assistant Professor, Ethnology Department, Faculty of Philosophy and History, Plovdiv University “Paisii Hilendarski”, Bulgaria

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General Information

Venues

For maps of the venues see the Annex.

The opening of the 8th Tensions of Europe conference on Thursday, September 7th (17:00-20:00), will take place at the Historical Central Building of the National and Kapodistrian University of Athens. The address is Panepistimiou Avenue 30, at the heart of downtown Athens (metro station: Panepistimio).

The Welcome Reception of the conference on Thursday, September 7th (20:00-22:00), will be hosted at the ‘Kostis Palamas’ Building of the National and Kapodistrian University of Athens (Faculty Club). It is located at the corner of Massalias and Academias Streets, very close to the Historical Central Building (metro station: Panepistimio).

The conference sessions (8th-10th September) will take place at the teaching rooms (A/B/C/D) of the Department of History and Philosophy of Science, which are located at the University Campus, in Ilisia (metro station: Evangelismos, change to bus line 250, bus stop: 1st Panepistimioupolis).

The Conference Banquet on Saturday, September 9th (20:15-02:00), will be hosted at the ‘Chytirio’ Theater / Art Cafe. The address is Iera Odos 44, Kerameikos, Athens (metro station; Kerameikos).

Pre-Conference Events

Tensions of Europe Early Career Scholars' Group Summer School

“Borders and Crises in European Past and Present – angles from the history of technology”

5-7 September 2017 (Seminar Room ‘Goudaroulis’, Department of History and Philosophy of Science, National and Kapodistrian University of Athens, University Campus)

Pre-Conference Research Workshop

Thursday, 7th September, 10:30-13:30 (Seminar Room ‘Goudaroulis’, Department of History and Philosophy of Science, National and Kapodistrian University of Athens, University Campus)

§ *Europe, Borders, Technology: Ongoing Research Projects*

Discussants: Shahram Khosravi (Stockholm University), Annalisa Pelizza (University of Twente), Dagmara Jajeśniak Quast (European University Viadrina) & Aristotle Tympas (National and Kapodistrian University of Athens)

§ *“The European Challenges: Technological Change and Re-Arrangements of Work, Migration and Resource Use” Research Project*

Discussants: Norbert Cyrus & Klaus Weber (European University Viadrina)

Social Program

‘Borders, Technology, Art’ Photography Exhibitions

Two photography exhibitions are hosted at the main conference venue (teaching rooms, Department of History and Philosophy of Science, University Campus). Both exhibitions are organized in collaboration with the RISK CHANGE project, which is co-funded by the Creative Europe Program of the European Union and the National and Kapodistrian University of Athens.



www.riskchange.eu/

We are thankful to Nikos Vardakastanis, the Hellenic Parliament and the Photo Press Union for the photography exhibitions.

§ *LOOKING THE “OLD” PHOTO ALBUMS*

An exhibition of photographs by Nikos Vardakastanis, photographer and artist. Extracts from a text on the exhibition by the photographer himself:

The people portrayed through my lenses, families with children but also couples or adults who the refugee crisis left homeless and forced to travel under difficult circumstances, are searching for an escape from the hell of war. To them, these pictures have a special meaning because they constitute a “network of memories and meanings”: a picture on the wall of their personal room-shelter, an electronic archive that was sent to a relative who stayed back or waits to welcome them in Europe.

§ *ROADS OF SURVIVAL*

The exhibition “Roads of Survival”, which belongs to the Hellenic Parliament and the Photo Press Union of Greece, displays photographic recordings of the forced journey of refugees (the road of survival). It consists of photographs by experienced and well-known photojournalists. The list includes the following:

Haris Akriviadis, Vasilis Asvestopoulos, Vasilis Ververidis, Christina Zachopoulou, Alexandros Zontanos, Michalis Karayiannis, Dimitrios Karvountzis, Yannis Kolesidis, Eleni Kouri, Maro Kouri, Ilias Koutouloyenis, Manolis Lagoutaris, John Liakos, Marios Lolos, Stelios Matsagos, Andrianos Meltzanis, Stelios Misinas, Panagiotis Moschandreou, Tatiana Mpolari, Leonidas Bakolas, Yannis Behrakis, Orestis Panagiotou, Georgia Panagopoulou, Chryssa Panousiadou, Symela Pantzartzi, Giannis Papanikos, Lefteris Pitarakis, Antonis Pasvantis, Michalis Patsouras, Thanasis Stavrakis, Grigoris Siamidis, Stelios Stefanou, Dimitris Tosidis, Konstantinos Tsakalidis, Kostas Tsironis, Mehmet Ayhan, Andrea Bonetti, Hodo Oldi, Ghulamullah Habibi, Barda Mohammed, Youssef Badawi, Barda Mohammed, Atef Safadi.

Lunch Break Guided Tours

(Registration required; included in the registration fee)

§ **‘Between Migration Routes and Antiquities’**, Lunch Break Guided Tour, Downtown Athens, Friday, September 8th or Saturday, September 9th

Guide: Alexia-Sofia Papazafeiropoulou

§ **‘Technology in the National Archaeological Museum’**, Lunch Break Guided Tour, Friday, September 8th

Guide: Aristotle Tympas

§ **‘Technology in the Byzantine and Christian Museum’**, Lunch Break Guided Tour, Saturday, September 9th

Guide: Athanasia Megremi

PROGRAM OUTLINE

PRE-CONFERENCE EVENTS				
TUESDAY 5/09 – THURSDAY 7/09	SUMMER SCHOOL: <i>“Borders and Crises in European Past and Present – angles from the history of technology”</i> Tensions of Europe Early Career Scholars’ Group Summer School			
WENDESDAY 6/09	TRAINING WORKSHOP: ‘Risk Change’ Creative Europe EU Project			
THURSDAY 7/09, 10:30-13:30	RESEARCH WORKSHOP: <ul style="list-style-type: none"> · <i>Europe, Borders, Technology: Ongoing Research Projects</i> · <i>“The European Challenges: Technological Change and Re-Arrangements of Work, Migration and Resource Use” Research Project</i> 			
THURSDAY 7/09				
15:00-17:00	REGISTRATION			
17:00-17:30	WELCOME NOTES			
17:30-19:00	KEYNOTE SPEECH: “The border goes where the movement is”, Huub Dijkstra, University of Amsterdam			
19:00-20:00	RESEARCH FRONTIERS: Shahram Khosravi, Stockholm University			
20:00-22:00	WELCOME RECEPTION			
FRIDAY 8/09				
Parallel Sessions 1 9:00-10:45	1-A Technology and the Environment in Eastern Europe: A Long-term Perspective	1-B “Borders and power”: Nuclear power, electricity, gas and renewable energy technologies in the borders	1-C Travelling Technologies	1-D Border Visions: Experiments and asymmetries
Parallel Sessions 2 11:00-12:45	2-A Siting nuclear installations at the border: Transnational political implications and societal responses	2-B Bridge over Troubled Waters – Border crossing development of technological systems in the Cold War	2-C There to Stay: Articulating the tension between volatility and entrenchment in border regimes infrastructures	
12:45-14:30	Lunch break / Guided tours			
Parallel Sessions 3 14:30-16:15	3-A International Broadcasting: Challenges in Comparative Radio Research in Eastern Europe	3-B Transnational governance of risk - Nuclear energy and the collapse of the Iron Curtain 1990-1994	3-C Sustainable Urban Mobility	3-D Borders and Technologies
Plenary Session 16:30-19:00	Tensions of Europe Plenary Session and Workshop <i>Challenging Prometheus and Clío: A History of Technology for an Age of Grand Challenges</i>			

SATURDAY 9/09				
Parallel Sessions 4 9:00-10:45	4-A Technology, natural resources and crises in the past and present of Europe and beyond (I): Knowledge/Resource Circulation	4-B Stations, Labs and Satellites: Real and Imagined Infrastructures in Outer Space	4-C Science diplomacy: Some methodological aspects	
Parallel Sessions 5 11:00-12:45	5-A Technology, natural resources and crises in the past and present of Europe and beyond (II): Colonizing Resources	5-B Communication across borders: Visions, threats and political conflict around transnational communication infrastructures in twentieth century European history	5-C Technology, Colonialism, Post-Colonialism	5-D Technologies, Borders, Ideologies
12:45-14:30	Lunch break / Guided tours			
Parallel Sessions 6 14:30-16:15	6-A Technology, natural resources and crises in the past and present of Europe and beyond (III): Management of Natural Resource	6-B Infrastructural technologies in peripheral European context	6-C Sites of Capital: Science, Technology and Medicine in Lisbon	6-D Borders and Migrations
Plenary Session 16:30-18:00	KEYNOTE SPEECH: “Gendered technologies of everyday survival in the city: Experiences from Athens”, Dina Vaiou, National Technical University of Athens			
20:15-02:00	CONFERENCE BANQUET			
SUNDAY 10/09				
Parallel Sessions 7 10:00-11:45	7-A Technology, natural resources and crises in the past and present of Europe and beyond (IV): Crisis and Resource Management	7-B Technologies Control, Hazards, Risks	7-C (Bio)Medicalization and technologies	7-D Infrastructuring borders
End of Conference				

PROGRAM**Thursday 7/09**

- 15:00-17:00 **Registration**
Amphitheatre, Historical Central Building, National and Kapodistrian University of Athens (Panepistimiou Ave.30, Athens)
- 17:00-17:30 **Welcome Notes**
- 17:30-19:00 **Keynote Speech: “The border goes where the movement is”**
Huub Dijkstra, Professor of Philosophy of Science and Politics at the University of Amsterdam and Senior Research Fellow at the Netherlands Scientific Council for Government Policy in The Hague
- 19:00-20:00 **Research Frontiers:** Shahram Khosravi, Associate Professor, Department of Social Anthropology, Stockholm University
-
- 20:00-22:00 **Welcome Reception**
‘Kostis Palamas’ building (Massalias and Academias Streets, Athens)

Friday 8/09

All sessions take place in Rooms A/B/C/D, Department of History and Philosophy of Science (University Campus)

9:00-10:45 Parallel Sessions 1**Session 1-A Technology and the Environment in Eastern Europe: A Long-term Perspective**

Chair: Christos Karampatsos, National and Kapodistrian University of Athens

Stephen Brain, Mississippi State University, USA

Early Soviet Agriculture and the World Market

Michel Dupuy, Institut d'Histoire Moderne et Contemporaine, France

Pollution and public space in GDR (1949-1990)

Viktor Pál, Jean Monnet Team, University of Helsinki, Finland

The Colonization of the Natural Environment in Austria-Hungary. Economic, Ethnic and Social Conflicts over Slovakian Forests in the late Nineteenth Century

Session 1-B “Borders and power”: Nuclear power, electricity, gas and renewable energy technologies in the borders

Chair: Arne Kaijser, KTH Royal Institute of Technology

Session organizer: Ivaylo Hristov, University of Plovdiv

Martin J. Ivanov, Institute for the Study of Societies and Knowledge, Bulgarian Academy of Sciences, Sofia, Bulgaria

NATURA 2000 vs. Renewable Energies – Contested Territories and Nature Protection's Borders: The Bulgarian Case

Yannis Fotopoulos, Department of History and Philosophy of Science, National and Kapodistrian University of Athens, Greece

Borderless imaginaries of techno-political infrastructures. Natural Gas in Greece from the early 1970s to the present

Ivaylo Hristov, University of Plovdiv, Bulgaria

Expanding the European borders. EU and Soviet nuclear technology in Bulgaria

Session 1-C Travelling Technologies

Chair: Eirini Mergoupi-Savaidou, Academy of Athens / Hellenic Open University

Jørgen Burchardt, National Museum of Science and Technology, Denmark

From anarchy to international standards. The development of technical and organizational agreements around products through de facto standards and political regulations. Examples from the road freight transport business, 1900–2000

Elitsa Stoilova, Faculty of Philosophy and History, Plovdiv University, Bulgaria

Food Technologies and Technological Transfers

Leda Papastefanaki, Department of History-Archaeology, School of Philosophy, University of Ioannina, Greece

Gendered technology crossing borders: The sewing machine in the Mediterranean (mid 19th-mid 20th centuries)

Serkan Karas, Department of History and Philosophy of Science, National and Kapodistrian University of Athens, Greece, &
 Stavroula Michael, Department of Architecture, University of Cyprus, Cyprus
Traversing continents, appropriating localities: A look at British colonial engineering expertise through the case of Cyprus (1898-1962)

Session 1-D Border Visions: Experiments and asymmetries

Chair: Nils Zurawski, University of Hamburg, Germany

Eileen Murphy, Centre for Innovative Human Systems, Trinity College Dublin, Ireland, &
 Mark Maguire, Department of Anthropology, Maynooth University, Ireland
Slow down, borders ahead: The cultural history of automated borders

Merle Missoweit, Fraunhofer Institute for Technological Trend Analysis (INT), Germany
Border control technology, from participatory research to the visualization of societal challenges

Peter Fussey, Department of Sociology, University of Essex, UK
Seeing hidden enemies: surveillance, counterterrorism and border control

Sadhbh McCarthy, Global Foresight Project, Stockholm University, Sweden
Unseen data: Airport attacks and blindness in border technology

10:45-11:00 Coffee break

11:00-12:45 Parallel Sessions 2

Session 2-A Siting nuclear installations at the border: Transnational political implications and societal responses

Chair/Commentator: Per Högselius, KTH Royal Institute of Technology
Session organizers: Arne Kaijser, Astrid Kirchhof, Jan-Henrik Meyer & Markku Lehtonen

Arne Kaijser, KTH Royal Institute of Technology, Sweden
“Vad ska väck? Barsebäck!”: The Barsebäck power plant in Swedish energy politics

Jan-Henrik Meyer, Saxo Institute of the University of Copenhagen, Denmark / Center for Contemporary History (ZZF), Potsdam, Germany
“20 km from Copenhagen market square”: Danish perspectives on the Swedish nuclear power plant Barsebäck

Markku Lehtonen, Groupe de Sociologie Pragmatique et Réflexive (GSPR), l’Ecole des Hautes Etudes en Sciences Sociales (EHESS), Paris, France / Science Policy Research Unit (SPRU), University of Sussex, UK
Breeding transnational responses: The Superphénix fast breeder reactor: cross-border collaboration, protest and consequences

Astrid Mignon Kirchhof, Deutsches Museum, Munich, Germany
Crossing Permeable Borders at the Gorleben Nuclear Facility

Session 2-B Bridge over Troubled Waters – Border crossing development of technological systems in the Cold War

Chair: Ana Simões, CIUHCT, Universidade de Lisboa

Session organizers: Johan Gärdebo & Saara Matala

Saara Matala, Aalto University, Finland, &
Aaro Sahari, University of Helsinki, Finland

Towards transnational history of the Arctic maritime technology

Mila Oiva, University of Turku, Finland

Trade Crossing Eastern Bloc Borders. An Example of Transnational History of Polish-Soviet Trade

Johan Gärdebo, KTH Royal Institute of Technology, Sweden

We have a solution, what is the problem? Why Sweden developed transnational satellite observation as aid to South Asia, 1986-1988

Session 2-C There to Stay: Articulating the tension between volatility and entrenchment in border regimes infrastructures

Chair: Annalisa Pelizza, University of Twente / Paris Institute of Advanced Studies

Session organizer: Annalisa Pelizza

Annalisa Pelizza, University of Twente, the Netherlands / Paris Institute of Advanced Studies

There to Stay: Articulating the tension between volatility and entrenchment in border regimes infrastructures

Melina Antonakaki, Munich Centre for Technology in Society (MCTS-TUM), Germany, &
Bernd Kasperek, Network for Critical Migration and Border Regime Studies (kritnet)

Europeanisation on whose terms? What remains of the hotspot approach after the Summer of Migration

Mariangela Veikou, University of Twente, the Netherlands

(Post crisis) asylum in Greece. Manoeuvring between Crisis and Statelessness

Silvan Pollozek, Munich Center for Technology in Society (digital/media/lab@MCTS), Germany

Reform&support: Interventions on infrastructures of border and migration management

Vasilis Galis, IT University of Copenhagen, Denmark, &

Jane Summerton, Swedish National Road and Transport Research Institute, VTI, Sweden

Digital Routes: Borders, infrastructures and migratory practices in navigating migratory paths in contemporary Europe

12:45-14:30 Lunch break – Guided tours

14:30-16:15 Parallel Sessions 3**Session 3-A International Broadcasting: Challenges in Comparative Radio Research in Eastern Europe**

Chair: Andreas Fickers, University of Luxemburg

Dariusz Brzostek, Department of Cultural Studies, Nicolaus Copernicus University, Toruń, Poland

Copy (the music) and share (the tape). On the Institutionalization of the bootlegging in the Polish People's Republic

András Simongáti-Farquhar, Open Society Archives, Budapest, Hungary

Battlefield and territorialization in the ether. Strategies of territorial rearrangement and ideological warfare in the electromagnetic domain

Georgi Georgiev, Central European University, Budapest, Hungary

Balloons across the Iron Curtain: Reshaping Cold War Borders using Meteorological Imagination

Ruxandra Petrinca, McGill University, Canada

"Auch polenta explodiert." Radio Free Europe and Romanian Political Opposition to Ceausescu's Regime

Joanna Walewska, Nicolaus Copernicus University, Toruń, Poland

Listening through the Iron Curtains – RFE and Polish Radio in the "fog of war"

Session 3-B Introduction to the research platform: National and transnational governance of risk during the era of political transformations

Chair/Commentator: Ivan Tchalakov, University of Tomsk and Plovdiv

Session organizer: Karl-Erik Michelsen

Karl-Erik Michelsen, Lappeenranta University of Technology, Finland

Introduction to the research platform

Aisulu Harjula, Lappeenranta University of Technology, Finland

Transnational Risk Governance in Nuclear Power: Eastern Europe

Karl-Erik Michelsen, Lappeenranta University of Technology, Finland

Stereotypical views and the perception of risk. The case of VVER-reactors in Eastern Europe after the collapse of the Soviet Union 1991

Session 3-C Sustainable Urban Mobility

Session organizer: Frank Schipper, Independent Scholar

Chair: Aleksandra Bekasova, Higher School of Economics, St. Petersburg, Russia

Martin Emanuel, Uppsala University, Sweden,

Ruth Oldenziel, Eindhoven University of Technology, the Netherlands, &

Frank Schipper, Independent Scholar

History in Sustainable Urban Mobility: An introduction

Patrick Bek, Eindhoven University of Technology, the Netherlands

Transport Poverty, Governance, and Cycling

Henk-Jan Dekker, Eindhoven University of Technology, the Netherlands

Building a nation of cyclists: The governance of Dutch cycling, 1920-1940

M. Luísa Sousa, CIUHCT, Universidade NOVA de Lisboa, Portugal
Conceptualizing Sustainability and the Urban Question Historically

Session 3-D Borders and Technologies

Chair: Spyros Tzokas, Institute of Mediterranean Studies / Hellenic Open University

Nina Amelung, Centre for Social Studies, University of Coimbra, Portugal, &
 Helena Machado, Centre for Social Studies, University of Coimbra, Portugal
Affected for good or evil: Conceptions of “citizenship” and “publics” shaped by crime management technologies

Federica Infantino, Group for Research on Ethnic Relations, Migration and Equality, Université Libre de Bruxelles, Belgium / Wolfson College, University of Oxford, UK
Outsourcing border control. Politics and Practice of Contracted Visa Policy in Morocco

Lino Camprubí, Max Planck Institute for the History of Science, Germany
Oceanic Technologies for a New European Border

Dimitrios Ziakkas, Department of History and Philosophy of Science, National and Kapodistrian University of Athens, Greece
Migration and Border Studies: Search and Rescue missions of Greek Air Force, 1975- 2016: Critical episodes and migration crisis

16:15-16:30 Coffee break

16:30-19:00 Plenary session

Tensions of Europe Plenary Session and Workshop:

(Room A) *Challenging Prometheus and Clio: A History of Technology for an Age of Grand Challenges*

Session organizer & Chair: Erik van der Vleuten, on behalf of the TOE Management Committee

Saturday 9/09

All sessions take place in Rooms A/B/C/D, Department of History and Philosophy of Science (University Campus)

9:00-10:45 Parallel Sessions 4**Session 4-A Technology, natural resources and crises in the past and present of Europe and beyond (I): Knowledge/Resource Circulation**

Chair: Vaso Seirinidou, National and Kapodistrian University of Athens

Session organizers: Elena Kochetkova & Matthias Heymann

Alexandra Bekasova, Higher School of Economics, St.Petersburg, Russia

The International Network of Testing Materials Experts and “The Cement Question”: Negotiating Methods, Instruments and Technical Protocols, 1880-1915 (Seen from Imperial Russia Perspective)

Matthias Heymann, Aarhus University, Denmark

Climatic challenges and water scarcity: International cooperation in the UNESCO Arid Zone Programme

Śławomir Łotysz, Institute for the History of Science, Polish Academy of Sciences, Warsaw, Poland

Engineering for social order? Ethnical and societal aspects of planned draining of the Polesie Marshes in interwar Poland

Session 4-B Stations, Labs and Satellites: Real and Imagined Infrastructures in Outer Space

Chair: Erik van der Vleuten, Eindhoven University of Technology

Alexander C.T. Geppert, New York University, Shanghai/New York

Astropoleis: Space Stations and Colonization Scenarios through the 1970s

Tilman Siebeneichner, Zentrum für Zeithistorische Forschung, Potsdam, Germany

Thinking Trans-globally: Spacelab and Europe’s Future in Outer Space, 1973–1987

Martin Collins, Smithsonian National Air and Space Museum, Washington DC, USA

The Neoliberal Imaginary and Space-based Infrastructure in the 1990s: The Case of Iridium and Satellite Telephony

Session 4-C Science diplomacy: Some methodological aspects

Round table discussion

Chairs: Leonard Laborie, National Center for Scientific Research (CNRS), & Maria Rentetzi, National Technical University of Athens

Participants: Nina Wormbs, KTH Royal Institute of Technology,
Anna Åberg, Chalmers University of Technology,
Katerina Vlantonis, National and Kapodistrian University of Athens,
Matthew Adamson, University of Veterinary Medicine Budapest

10:45-11:00 Coffee break

11:00-12:45 Parallel Sessions 5

Session 5-A Technology, natural resources and crises in the past and present of Europe and beyond (II): Colonizing Resources

Chair: Nina Wormbs, KTH Royal Institute of Technology

Session organizers: Elena Kochetkova & Matthias Heymann

Karl Bruno, KTH Royal Institute of Technology, Sweden

Whose Business? Swedish Foreign Policy and Commercial Natural Resource Interests in Liberia, 1955–80

Per Högselius, KTH Royal Institute of Technology, Sweden, &

Dag Avango, KTH Royal Institute of Technology, Sweden

Small countries and European resource colonialism during the short 20th century

Ihediwa Nkemjika Chimee, University of Nigeria, Nigeria

The transformative power of European technology in resource exploitation and use: Reflections on the oil presses and rail lines of colonial Nigeria

Roberto Cantoni, Sciences Po, Paris, France

Not the green grabbing you would expect. The case of Morocco's Noor solar plant

Session 5-B Communication across borders: Visions, threats and political conflict around transnational communication infrastructures in twentieth century European history

Chair: Falk Flade, European-University Viadrina

Session organizer: Andreas Marklund

Jacob Ward, University College London / Science Museum, UK

The Single World System: Submarine Cables and Satellites from the Cold War to the Information Age

Christian Henrich-Franke, Collaborative Research Centre 'Media of Cooperation' at the University of Siegen, Germany, &

Leonard Laborie, National Center for Scientific Research (CNRS), Paris, France

Communication without Borders? Transnational Cooperation between European PTTs during WWII

Sanne Aagaard Jensen, University of Copenhagen / ENIGMA – Museum of Communication, Copenhagen, Denmark

Borders in peace, borders in war: The telex-gentex networks of Cold War Europe

Andreas Marklund, ENIGMA – Museum of Communication, Copenhagen, Denmark

Trawling the Wires: Mass Surveillance of Transnational Telephony in Denmark around WWII

Session 5-C Technology, Colonialism, Post-colonialism

Chair: Serkan Karas, National and Kapodistrian University of Athens

Hugo Silveira Pereira, CIUHCT, Universidade NOVA de Lisboa, Portugal / Institute of Railway Studies, University of York, UK

Tensions in the border II: New insights on transnational railways – the Portuguese colonial case (1870s-1900s)

M. Luísa Sousa, CIUHCT, Universidade NOVA de Lisboa, Portugal
Modernising Angola and Mozambique during the colonial wars: Discourses, practices and road engineering at the service of the war effort

Ute Hasenöhr, University of Innsbruck, Austria
Rural electrification in the British Empire

John Laurence Busch, Independent historian
Liberté et Mobilité pour Humanité: The Breakdown of Borders Using the First High Technology

Session 5-D Technologies, Borders, Ideologies

Chair: Vasilis Galis, IT University of Copenhagen

Matthew G O'Neill, Queen's University Belfast, UK
The Irish Border: Its Symbolic Past and Technological Future

Helena Machado, Centre for Social Studies, University of Coimbra, Portugal,
 Rafaela Granja, Centre for Social Studies, University of Coimbra, Portugal,
 Marta Martins, Faculty of Economics and Centre for Social Studies, University of Coimbra, Portugal, &
 Sara Mato, Faculty of Economics and Centre for Social Studies, University of Coimbra, Portugal
Criminalisation across borders: Geopolitical tensions, and categories of otherness and suspicion

Jaume Sastre-Juan, CIUHCT, Universidade de Lisboa, Portugal
 Ferran Aragon, Centre d'Història de la Ciència – Universitat Autònoma de Barcelona,
 Ana Macaya-Andrés, Centre d'Història de la Ciència – Universitat Autònoma de Barcelona, &
 Jaume Valentines-Álvarez, CIUHCT, Universidade NOVA de Lisboa, Portugal
Razor Wire in Fortress Europe: Technology, Pain and the Control of Space

Olga Lafazani, Department of Anthropology, Universitat de Barcelona. Spain
The refugee camp as a technology of control in time and space: Experiences from Greece

12:45-14:30 Lunch break – Guided tours

14:30-16:15 Parallel Sessions 6

Session 6-A Technology, natural resources and crises in the past and present of Europe and beyond (III): Management of Natural Resources

Chair: Vaso Angelopoulou, National and Kapodistrian University of Athens
Session organizers: Elena Kochetkova & Matthias Heymann

Margarita Dadykina, Higher School of Economics, St.Petersburg, Russia, &
 Alexei Kraikovski, Higher School of Economics, St.Petersburg, Russia
The 18th century whaling companies and the imagination of natural resources of the European Arctic

Timo Myllyntaus, University of Turku, Finland
From wooded wilderness to the brink of an ecological crisis: The Finnish debate on forestry and the rational use of timber in the 18th and 19th century

Julia Lajus, National Research University Higher School of Economics, Russia
First World War food crisis, inventory of fish resources and discussions on new fishing technologies in Russia

Jiří Janáč, the Czech Academy of Sciences, Czech Republic
The Complex Water Management and Soil Improvement Scheme for Southern Moravia

Session 6-B Infrastructural technologies in peripheral European contexts

Chair: Leonard Laborie, National Center for Scientific Research (CNRS)

Aliki Vaxevanoglou, Research Center for Greek Society, Academy of Athens, Greece
The Social Reception of Electrical Technology in Interwar Greece

Duygu Aysal Cin, Department of Rare Books, Istanbul Technical University, Turkey
Transnational Circulation of Knowledge and Skills around Ottoman Electrification (1910-1914)

Alexia Sofia Papazafeiropoulou, National Technical University of Athens, Greece,
 Frank Schipper, Independent Scholar, &
 Kostas Vattes, Department of History and Philosophy of Science, National and Kapodistrian University of Athens, Greece
Gazing at the West. The transnational orientations of Balkan mobility infrastructure during 1950 – 1960

Maria Mavroidi, Historical Archives of the Public Power Corporation S.A., Greece / Greek Section of TICCIH (The International Committee for the Conservation of the Industrial Heritage)
The Greek machine-making sector: An untold story of technology transfer and integration

Julia Erol, University of Heidelberg, Germany
Beyond Borders. The significance of Norwegian hydroelectricity. [Poster presentation in the context of the session]

Session 6-C Sites of Capital: Science, Technology and Medicine in Lisbon

Chair: M. Luísa Sousa, CIUHCT, Universidade NOVA de Lisboa

Session organizers: Marta Macedo & Ana Simões

Marta Macedo, Institute of Social Sciences – University of Lisbon, Portugal
Capital streets: Science, credit, and crisis in Lisbon, 1837-1892

Ana Simões, CIUHCT, Universidade de Lisboa, Portugal, &
 Maria Paula Diogo, CIUHCT, Universidade NOVA de Lisboa, Portugal
Working-class neighborhoods in Lisbon: Circulation of workers and capital in building a techno-scientific metropolis

José Avelãs Nunes, University of Coimbra / CIUHCT, Universidade de Lisboa, Portugal
Dirty money, dirty hands: Circulating and containing diseases in Lisbon (1850-1940)

João Machado, CIUHCT, Universidade de Lisboa, Portugal
New Ghosts of Scientific Lisbon: Visualizing strategies for the humanities

Session 6-D Borders and migrations

Chair: Dagmara Jajeśniak Quast, European University Viadrina

Iossif Konstantinou, Department of Communication, Media and Culture, Panteion University, Greece

Media, Technologies and Migration: Connecting Syrian families in Greece

Naoki Kambe, Rikkyo University, Tokyo, Japan

Perspective by Incongruity in Juxtaposed Photographs: Memories of Idomeni Refugee Camp

Rasheed Oyewole Olaniyi, Department of History, University of Ibadan, Nigeria

The Gateman of Europe: Muammar Gaddafi and Anti-African Immigration Policies in Libya, 2004-2011

Sławomir Kamosiński, Kazimierz Wielki University, Poland

Why don't economic migrants from Ukraine take up jobs in their professions? Research on qualifications and employment of persons crossing borders for commercial purposes

16:15-16:30 Coffee break

16:30-18:00 Plenary session

(Room A) **Keynote Speech:** *“Gendered technologies of everyday survival in the city: Experiences from Athens”*

Dina Vaiou, National Technical University of Athens

20:15- 02:00 Conference Banquet

Chytirio Theater / Art Cafe (Iera Odos 44, Kerameikos, Athens)

Sunday 10/09

All sessions take place in Rooms A/B/C/D, Department of History and Philosophy of Science, University Campus

10:00-11:45 Parallel Sessions 7**Session 7-A Technology, natural resources and crises in the past and present of Europe and beyond (IV): Crisis and Resource Management**

Chair: Anna Åberg, Chalmers University of Technology

Session organizers: Elena Kochetkova & Matthias Heymann

Hanna Vikström, KTH Royal Institute of Technology, Sweden

Is there a Supply Crisis? Swedish Strategic metals, 1917-2015

Elena Kochetkova, National Research University, Higher School of Economics, Saint-Petersburg, Russia

Soviet Natural Resources and Technological Development, 1940s-1980s

Frank Veraart, Eindhoven University of Technology, the Netherlands

Gravel and space, from a vital resource to the offshoring of an abundant material: Gravel excavations policies in the Netherlands, 1945-2015

Ole Sparenberg, University of the Saarland, Germany

The Commodity Crisis of the 1970s: Perception and Response

Session 7-B Technologies Control, Hazards, Risks

Chair: Stathis Arapostathis, National and Kapodistrian University of Athens

Anna Svensson, KTH Royal Institute of Technology, Stockholm, Sweden

Walls: Control, protection and survival in an early modern botanic garden

Iraklis Katsaloulis, Department of History and Philosophy of Science, National and Kapodistrian University of Athens, Greece

Mitigating Natural Hazards: The Case of Earthquake Prediction in Contemporary Greece

Christos Karampatos, Department of History and Philosophy of Science, National and Kapodistrian University of Athens, Greece

Machinery Dysfunction as a Bridge Between Labor History and the History of Technology: The Case of the Greek Cigarette Rollers, 1880-1920

Session 7-C (Bio)Medicalization and technologies

Chair: Alexia Sofia Papazafeiropoulou, National Technical University of Athens

Stevien de Saille, University of Sheffield, UK

Banning embryonic migration: European-level regulation of human reproductive cloning, and the implications for heritable genetic modification using CRISPR-Cas9

Mattia Della Rocca, University of Pisa / Campus Bio-Medico University of Rome, Italy

Brain, technology and the Human Brain Project: How “big brain science” is reshaping the borders of brain research

Magdalena Zdrodowska, Institute of Audiovisual Arts, Jagiellonian University, Poland

Technology as an identity border within deaf communities

Constantinos Morfakis, Department of History and Philosophy of Science, National and Kapodistrian University of Athens, Greece, &
Katerina Vlantonis, Department of History and Philosophy of Science, National and Kapodistrian University of Athens, Greece
Hybrid configurations of umbilical cord blood banking in Greece

Session 7-D Infrastructuring Borders

Chair: Peter Ulrich, European-University Viadrina
Session organizers: Dominik Gerst & Peter Ulrich

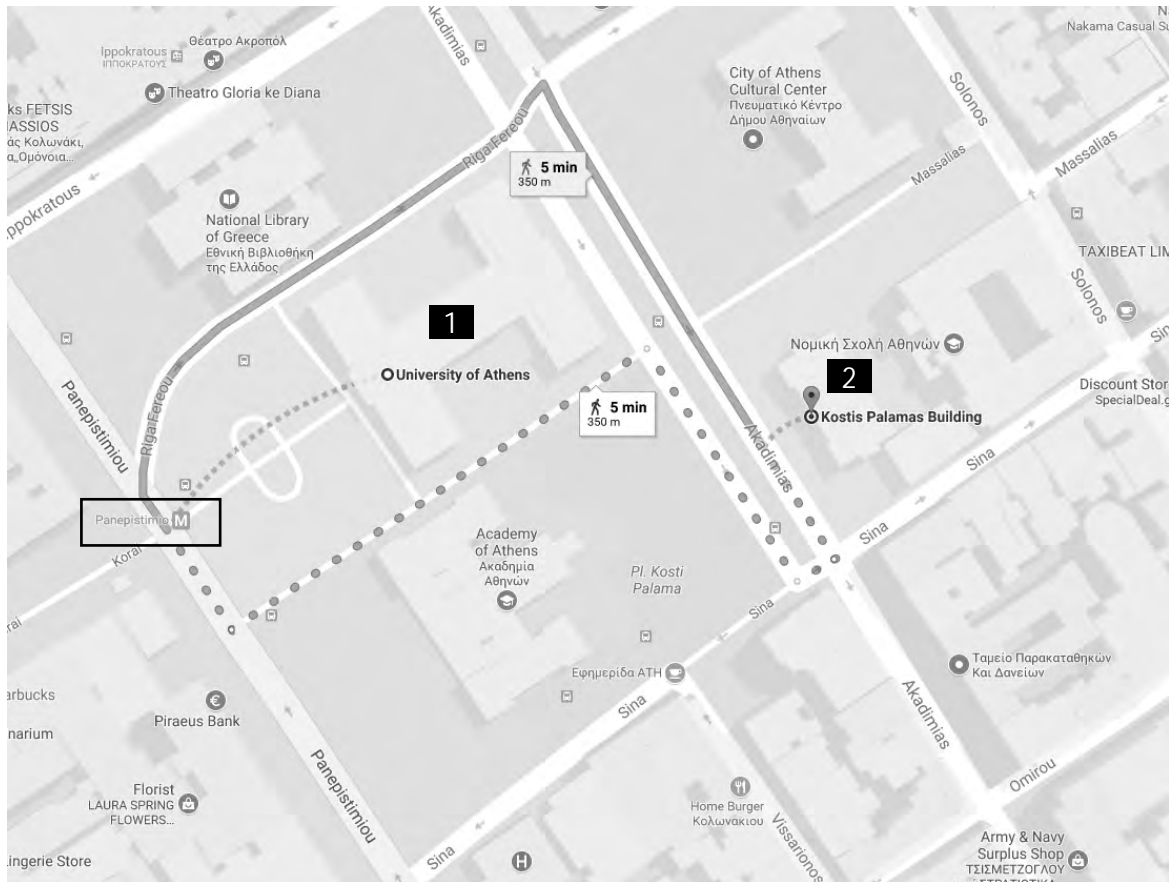
Dominik Gerst, Viadrina Center B/ORDERS IN MOTION, European-University Viadrina (Frankfurt/Oder), Germany, &
Peter Ulrich, Viadrina Center B/ORDERS IN MOTION, European-University Viadrina (Frankfurt/Oder), Germany
Infrastructuring Borders

Martin Klatt, University of Southern Denmark, Denmark
Spaces of Place or Spaces of Flows? The resilience of territorial border infrastructure in a globalized world, examples from Europe and North America

Holger Pötzsch, University of Tromsø, Norway
Managing Migration: On iBorder and Technological Zones/Work

Katrin Sowa, University of Cologne, Germany
Officers, Passports and Machines: Immigration Law Enforcement at a Border Post, Perspectives from the Global South

End of Conference

Annex: Maps**Thursday 7/09, Opening session and Welcome Reception****1.**

Amphitheatre, Historical Central Building, National and Kapodistrian University of Athens (Panepistimiou Ave.30, Athens)

Conference opening session

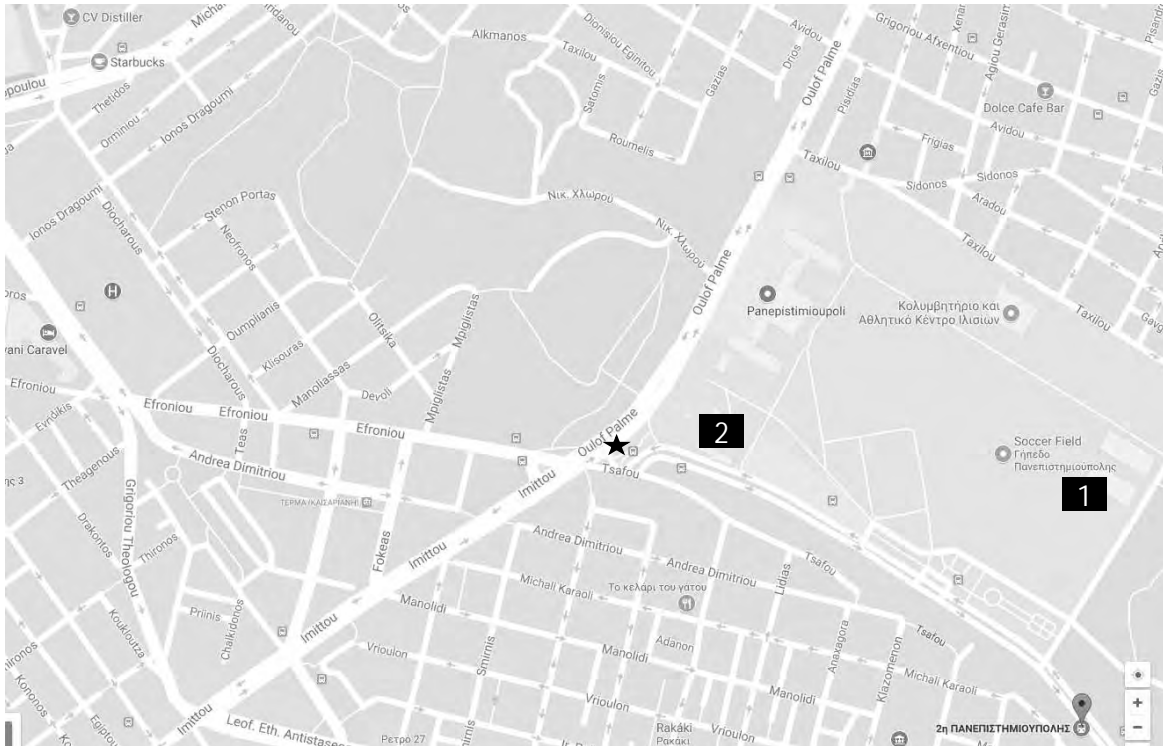
2.

‘Kostis Palamas’ building (Massalias and Academias 48 Streets, Athens)

Welcome Reception

Both venues are very close to the ‘Panepistimio’ metro station

Friday 8/09, Saturday 9/09, Sunday 10/09



1.

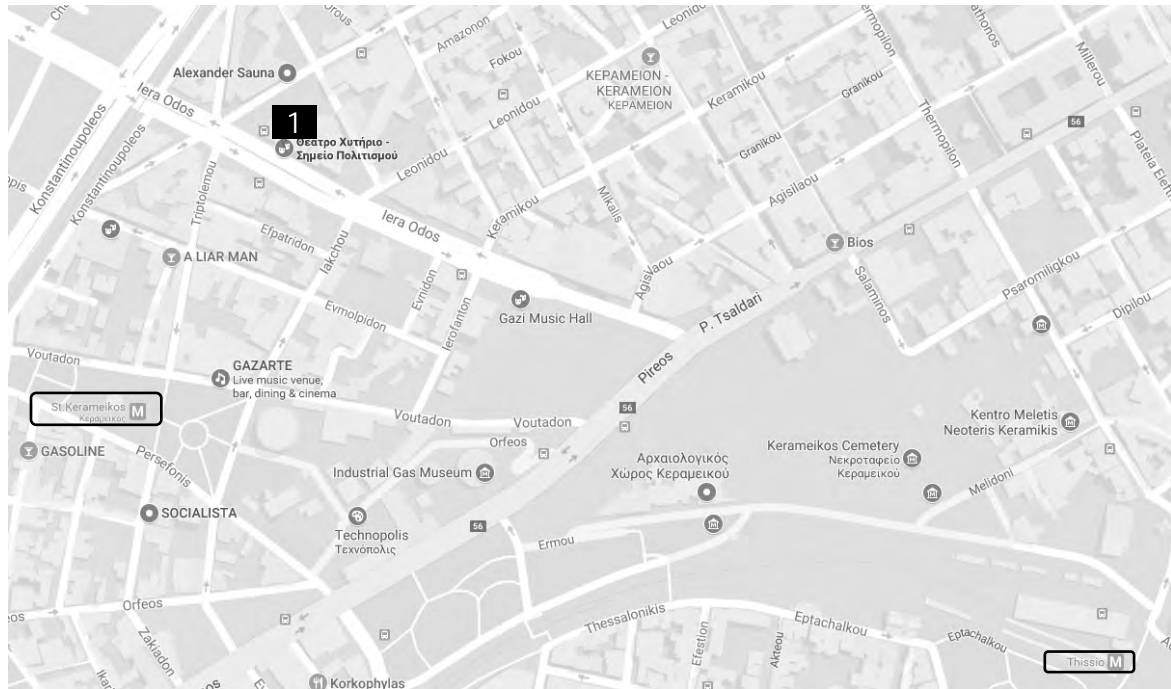
Main Conference Venue, teaching rooms A/B/C/D, Department of History and Philosophy of Science, University Campus, Ilisia

2.

Seminar Room ‘Goudaroulis’, Department of History and Philosophy of Science, National and Kapodistrian University of Athens, University Campus, Ilisia

Pre-Conference Events

(★ Main entrance of the University Campus, which is called *Panepistimioupoli*)

Saturday 9/09**1.**

“Chytirio” Theater / Art Cafe (Iera Odos 44, Kerameikos, Athens)
Conference Banquet

The venue of the Conference Banquet is located 5 min walk from Kerameikos metro station (blue line) / 15 min walk from Thissio metro station (green line). On Saturday night the blue and the red lines of the Athens metro operate until 2:00.



The **Inventing Europe** website is a pioneering collaboration between historians and cultural heritage institutions throughout Europe. Together, these national collections shape a transnational collective memory of Europe's cultural heritage. The goal of the website is to cross borders and explore the history, culture and formation of Europe through the lens of technological objects and images.

The exhibitions are collections of tours that have been grouped together around and explore one theme throughout the history of technology in Europe. The exhibition themes are: Daily Lives, Media, Knowledge Societies, Infrastructure, Globalisation and Governance.

The Exhibition themes have been inspired by the book series *Making Europe: Technology and Transformations 1850-2000* (<http://www.makingeurope.eu/>). The tours collected within these exhibitions allow users to make connections within and between the rich and growing online collections of museums, archives and libraries throughout Europe and beyond.

Visit the website and see how you can get involved!

www.inventingeurope.eu

InventingEurope@tue.nl