

# ICOHTEC

# NEWSLETTER



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## Newsletter of the International Committee for the History of Technology ICOHTEC

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### **Editorial**

Dear Colleagues and Friends,

Due to the large number of participants of our 39<sup>th</sup> symposium in Barcelona, the Program Committee did a great job to evaluate all the paper and session proposals for the conference. The result is impressive.

Antoni Roca-Rosell contributed an overview of the development of the History of Technology in Spain which is really helpful to prepare our conference.

It will be a pleasure to meet you in Barcelona!

Best wishes  
Yours Stefan Poser

## Content

I. ICOHTEC Symposium Barcelona – Preliminary Program of the Scientific Sessions and Posters	p. 2
II. Challenges for the History of Technology in Spain	p. 24
III. Conference Reports	p. 28
IV. Congress Announcements	p. 30
V. Summer Schools	p. 37
VI. Recently Published Books	p. 38
VII. Join ICOHTEC	p. 38

## I. ICOHTEC Symposium Barcelona – Preliminary Program of the Scientific Sessions and Posters

Please find a preliminary schedule of the whole conference on our homepage, [http://www.icohtec.org/2012-meeting/Preliminary\\_programme-Barcelona.pdf](http://www.icohtec.org/2012-meeting/Preliminary_programme-Barcelona.pdf)

### I.1 Scientific Sessions

[Modernity on Display: Technology, Science and Ideology at International Expositions circa World War II](#)

**Session organiser:** Professor Robert Kargon, United States

**Session chair:** Professor Ana Cardoso De Matos, Portugal

#### Panel 1

**National Socialism on Display: Technology, Design, and the Four-Year Plan at Schaffendes Volk**

Professor Karen Fiss, United States

**Which New Deal? Utopianism and Pragmatism at the 1939 New York World's Fair**

Professor Robert Kargon, United States

**Modernity on Display: The 1940 Grand International Exposition of Japan**

Professor Morris Low, Australia

**The Appian Way to Modernity: Past Meets Future at Mussolini's World Fair of Rome (E42)**

Dr. Arthur Molella, United States

## [Depicting engineering: portrayal of the engineer in the modern era](#)

**Session organiser:** Dr. Daniel Crespo, Spain

### Panel 1

**Juanelo Turriano, engineer and royal clockmaker. Building a myth**

Dr. Jesús Sáenz de Miera, Spain

**The visual arts and engineers from Filippo Brunelleschi to Juanelo Turriano: clock making and humanistic culture in the shaping of a noble profession**

Ph.D. candidate Cristiano Zanetti, Italy

**The literary portrayal of engineering: public works in sixteenth and seventeenth century chorographic literature**

Dr. David García, Spain

### Panel 2

**Civil engineering: image and identity in early nineteenth century Spain**

Dr. Daniel Crespo, Spain

**Icons of the modern age: nineteenth century engineers and developers**

Ph.D. candidate Alfonso Luján, Spain

## [Architectures and Technologies of Sound](#)

**Session organiser:** Professor Kristen Haring, United States

**Session chair:** Professor Hans-Joachim Braun, Germany

**Session commentator:** Professor Trevor Pinch, United States

### Panel 1

**Designing the Invisible: The Architecture of Roadside Noise Barriers, 1970-2010**

Professor Karin Bijsterveld, Netherlands

**Building for Telephones in Postwar America**

Professor Kristen Haring, United States

**The Technologies of High Culture: Glenn Gould, Architecture and the Philosophy of Recording**

Professor Edward Jones-Imhotep, Canada

## [Sport, Leisure and Play: Science, Technology and Culture](#)

**Session organiser:** Professor Hans-Joachim Braun, Germany, Dr. Stefan Poser, Germany, and Professor James Williams, United States

### Panel 1

**Chair:** Stefan Poser

**The Unfixed. Investigations into the early years of modern technical toys**

Anika Schleinzer, RWTH Aachen, [ani.schleinzer@gmx.net](mailto:ani.schleinzer@gmx.net)

***Playing Chess by Cable – Telegraphic Chess Playing: On the Interrelation of Technology and Sport in the long Nineteenth Century***

Simone Müller-Pohl, FU Berlin, [mueller@ifki.fu-berlin.de](mailto:mueller@ifki.fu-berlin.de)

***The Art of Model Railroading: Serious Play at the Consumption-Production Junction***

Jeffrey Larrabee, Strategic Planner & Acting Command Historian, National Guard Bureau, [jcl9@juno.com](mailto:jcl9@juno.com)

**Panel 2**

**Chair:** Arwen Mohun

***Utopian play: The “Dandanah” glass building blocks by Bruno Taut***

Artemis Yagou, VU University, Amsterdam, [artemis@yagou.gr](mailto:artemis@yagou.gr)

***Huizinga and his children: ‘Homo Ludens’ and modern technology from the 1930s to the 1960s in the Netherlands***

Dick van Lente, Erasmus University Rotterdam, [vanlente@eshcc.eur.nl](mailto:vanlente@eshcc.eur.nl)

***Technology and Play in Children’s Literature:***

***Non-fiction books for Children in the Netherlands, 1945 – 1970.***

Hilde Harmsen, Erasmus University Rotterdam, [hildeharmesen@eshcc.eur.nl](mailto:hildeharmesen@eshcc.eur.nl)

**Panel 3**

**Chair:** Hans-Joachim Braun

***Building and Sailing Small Boats for Pleasure***

James Williams, Deland, Florida, [techjunc@gmail.com](mailto:techjunc@gmail.com)

***From climbing to sport climbing: How technical innovations changed a traditional sport***

Claus Schäfer, Erlangen University, [claus.schaefer@zag.uni-erlangen.de](mailto:claus.schaefer@zag.uni-erlangen.de)

**Panel 4**

**Chair:** James Williams

***Sport as the Politics of Speed: Mapping the ‘New Economics’ of Indian Cricket***

Graduate student Vidya Subramanian, India

***Soccer as Science? What’s so special about FC Barcelona?***

Hans-Joachim Braun, Helmut-Schmidt University, [hjbraun@hsu-hh.de](mailto:hjbraun@hsu-hh.de)

**Panel 5**

**Chair:** Dick van Lente

***The ›Great American Revolution‹. Perception and Bioengineering in the Loop***

Dr. Sebastian Vehlken, Germany

Ph.D. candidate Jan Mueggenburg, Germany

***Dangerous Fun: Technology and the Commodification of Risk in Early 20<sup>th</sup> Century American Amusement Parks***

Arwen Mohun, University of Delaware, [mohun@UDel.Edu](mailto:mohun@UDel.Edu)

***Let us Drive ... Mobility Displayed at Annual Fairs and in Amusement Parks 1830s – 1970s***

Stefan Poser, Helmut-Schmidt University, [poser@hsu-hh.de](mailto:poser@hsu-hh.de)

**Before and after Chernobyl: Technological risks as social and ethical problem**

**Session organiser:** Professor Vitaly Gorokhov, Russia

**Session chair:** Dr. Carsten Orwat, Germany

**Session commentator:** Professor Gotthard Bechmann, Germany

**Panel 1**

**Technological catastrophe: the life in the modern risk societies**

Professor Gotthard Bechmann, Germany

**From Chernobyl to Fukushima: technological risks as ethical and social problems**

Professor Vitaly Gorokhov, Russia

Mrs. Galina Gorokhova, Russia

**Comparative analysis of the social and cultural features of the development of the nuclear technology in Russia and in Germany**

Professor Vitaly Gorokhov, Germany

Mrs. Constanze Scherz, Germany

**Is Chernobyl accident regularity or chance?**

Professor Natalia Baranovska, Ukraine

**Panel 2**

**Prospects and risks of new technologies: the formation of superhard materials synthesis in Ukraine**

Dr. Alla Lytvynko, Ukraine

**Activities of the Physical Department at the Kiev Polytechnic Institute in 1931 - 1955: historical aspect**

Professor Lilia Ponomarenko, Ukraine

**History of the Chernobyl disaster as social and political Problem**

Graduate student Anastasia Gorokhova, Russia

**Panel 3**

**Systemic Risks in the Electric Power Infrastructure?**

Dr. Carsten Orwat, Germany

**Are scientists for the safety of the technological systems responsible?**

Professor Hans Lenk, Germany

**The Big Apple and the Giant Mushroom: Depictions of a Nuclear Attack on New York City, 1945-2012**

Dr. Robert Jacobs, Japan

## [Functionality of Homes and Their Appliances – Challenges for Design, Technology and Production](#)

**Session organiser:** Professor Timo Myllyntaus, Finland

### Panel 1

**Session chair:** Lecturer Artemis Yagou, Greece

**Detached Cottages, Model Houses and Intelligent Homes: Visions of Housing and Experiences of Reality in 20th Century Finland**

Professor Timo Myllyntaus, Finland

**Finnish Houses for Polish Miners: Importing Ideas on Functional Homes with Prefabricated Buildings in the mid-20th Century**

Dr. Slawomir Lotysz, Poland

Professor Timo Myllyntaus, Finland

**Varieties of Scarcity: Industrial Designers and the East German Transition Economy**

Ph.D. candidate Swen Steinberg, Germany

Ph.D. candidate Sylvia Wölfel, Germany

### Panel 2

**Session chair:** Professor Timo Myllyntaus, Finland

**Gendering Electricity: The Docile Servant**

Ph.D. candidate Bahar Emgin, Turkey

**Domestic Fluorescent: The Technological Illumination of the American Suburbs**

Ph.D. candidate Georgina Ruff, United States

**Impact of Kitchen and Household Appliances on the Everyday Life of Korean Women: From Kimchi Jars to Kimchi Refrigerators**

Professor Jung Sook Bae, France

**Functionality of Indian Homes and their Societal Settings: Indicators of the Way of Life**

Dr. Naresh Sourabh, Finland

## [Fuel and energy complex in the arts and social life](#)

**Session organiser:** Professor Eldar Movsumzade, Russia

**Session chair:** Professor Eldar Movsumzade, Russia

### Panel 1

**The Development of Oil Refining in the Paintings**

Lecturer Olga Poletaeva, Russia

Professor Eldar Movsumzade, Russia

**Development of the technologies and technical means for production, transportation and storage of the liquefied natural gas (LNG)**

Ph.D. candidate Rim Teregulov, Russia

Professor Urii Dorojkin, Russia

## **International experience and prospects of the sea oil and gas production in Russia**

Professor Boris Mastobaev, Russia

Professor Ayrat Shammazov, Russia

### **Panel 2**

#### **Development of methods and technical means for inspection of pipeline transportation**

Ph.D. candidate Urii Lisin, Russia

#### **Removal of the oil sludge from subsea tanks under the toughening of the ecological requirements**

Ms. Anna Lokshina, Russia

### **Technological Cityscapes: Barcelona around 1900**

**Session organiser:** Dr. Oliver Hochadel, Spain

#### **Panel 1**

##### **Walking through the city, looking for spectacle. Lay perceptions of technology at the 1888 Barcelona International Exhibition**

Professor Agustí Nieto-Galan, Spain

##### **Animal technologies. Francesc Darder and applied natural history in the Barcelona Zoo around 1900**

Dr. Oliver Hochadel, Spain

##### **Improving nature. The pursuit of agricultural technologies in Barcelona in the early twentieth century**

Ph.D. candidate Laura Valls, Spain

#### **Panel 2**

##### **Technological Fun: Thoughts on Amusement Parks and the Exhibitionary Complex in Barcelona (1888-1929)**

Ph.D. candidate Jaume Sastre, Spain

Ph.D. candidate Jaume Valentines, Spain

##### **Do you know how to light this space? Rational lighting in Barcelona, 1929-1936**

Ph.D. candidate Jordi Ferran, Spain

##### **Looking for the public: medical clinics in Barcelona around 1900**

Dr. Alfons Zarzoso, Spain

#### **Panel 3**

##### **The Cerdà Plan for the Extension of Barcelona: A Constructivist Analysis of a Town-planning controversy**

Professor Eduard Aibar, Spain

##### **Artistic influences in Barcelona's Urbanization and Industrial Heritage**

Mr. Eusebi Casanelles, Spain

## 7th Annual ICOHTEC Symposium on Social History of Military Technology

Session organiser: Dr. Barton Hacker, United States

### Panel 1

#### **What Was the Trojan Horse?**

Harry Rand (US)

#### **The Trireme—The Ship That Changed the Ancient World?**

Jorit Wintjes (Germany)

#### **Keeping the Gun and Nothing Else: Pre-existing “Military” Organization in Kandy and Burma and the Introduction of Firearms.**

Michael Charney (UK)

### Panel 2

#### **Arms and Armor of Arab Warriors; or, When Artisanry Becomes Art and Technique.**

Laila Belhaj (Morocco)

#### **The *Livre de cannerie et artifice de feu* published by Vincent Sertenas (1561) and Its Technological Milieu**

Bert Hall (Canada)

#### **The Mediterranean Origins of 18th Century Swedish-Finnish Naval Innovations**

Mikko Huhtamies (Finland)

### Panel 3

#### **How to Choose the Cadets in Military Schools at the Beginning of the 19th Century**

Juan Navarro-Loidi (Spain)

#### **A Steel Ring and Its Consequences**

Petter Wulff (Sweden)

#### **Victorian Innovation? Yankee Enterprise versus English Conservatism in Military Technology**

Steven Collins (US)

### Panel 4

#### **Nineteenth-Century British Coastal Defenses: The Fear of Invasion, Naval Challenge, and Palmerston’s Follies**

Jesse Heitz (UK)

#### **The Role of the Confederate and Union Telegraph Systems in the Outcome of the American Civil War**

John Miller (US)

#### **The Military-Scientific Translator**

David Zimmerman (Canada)

### Panel 5

#### **Shooting Wells. Geology and Development of Oil Mining Technology**

Francesco Gerali (Italy/Mexico)



**Alfred Nobel's August 1890 letter to the Russian minister of War**

Yoel Bergmann (Israel)

**Nobel's Dynamite Factory in Bratislava**

Nina Bartosova (Slovakia)

**Panel 6**

**The career of an Infernal Lady—Big Bertha**

Bruno De Corte (Belgium)

**Innovative Tactics and Techniques in the Dardanelles Campaign during World War I.**

Esat Arslan (Turkey)

**Technology and War Propaganda in World War I Italian Advertising**

Loredana Vannacci and Ciro Paoletti (Italy/France)

**Panel 7**

**Technology, Sectional Interest and Norwegian Air Power 1920–1940**

Frode Lindgjeret (Norway).

**“The Spitfire Is ‘Now an Aeroplane’”: RAF Fighter Command, the Constant-Speed Propeller, and User Innovation**

Jeremy R. Kinney (US)

**Transforming the American Army after the Cold War**

Frank Maas (Canada)

**Panel 8**

**The Sinai Field Mission, the Electronic Third Part**

Enrico Magnani (Italy/UN)

**Aid-for-Labor: Civil Engineering and Counterinsurgency in Afghanistan**

Scott Alamanach Mikalauski (US/Thailand)

**Chivalric Culture and Cyborganism: Tribe and Territory in a Holographic Age of Human Security**

Michael A. Budd (US)

**[Print Technology and Early Modern Visual Culture](#)**

**Session organiser:** Ph.D. candidate Joseph Hartman, United States

**Panel 1**

**Breaks in Line: The Development and Dissemination of Intaglio Prints**

Graduate student Jun Nakamura, United States

**Women, Work, and Worms: The Woodcuts of Dialoghi di M. Magino Gabrielli Hebreo Venetiano sopra l'utili sue inventioni circa la seta**

Graduate student Emily Anderson, United States

**"Virtues and Defects of the European peoples": Choices, Repetitions, and Deliberate**

## **Misinterpretations in the Late Colonial Americas**

Ph.D. candidate Joseph Hartman, United States

## **Architectural Transformations in the Information Age**

**Session organiser:** Dr. Ahenk Yilmaz, Turkey

**Session chair:** Dr. Ahenk Yilmaz, Turkey

### **Panel 1**

#### **“The Art and Craft” of the Digital: The First Machine Age, Technology and Digital Architecture**

Dr. Ahenk Yilmaz, Turkey

#### **The Metamorphosis of Tectonics: Towards a Digitized Frampton**

Graduate student Arzu Beyza Yanar, Turkey

#### **Digital Technologies and Architectural Education: The Concept of Biomimesis in The 4th Year Architectural Design Studio**

Graduate student Irem Cabbaroglu, Turkey

#### **The effects of New Technologies on the Intersections of Arts and Architecture**

Graduate student Isil Kazaz, Turkey

## **Technical education in Spain in the eighteenth and nineteenth Century**

**Session organiser:** Dr. Carles Puig-Pla, Spain

### **Panel 1**

#### **Is there a national style in Spanish engineering? The case of ‘industrial engineering’**

Lecturer Antoni Roca-Rosell, Spain

#### **An example of multidisciplinary engineering education: the Barcelona Royal Military Academy of Mathematics (1720-1803)**

Lecturer Maria Rosa Massa-Esteve, Spain

#### **Mechanics and Experimental Physics in Spanish technical training in the first half of the 19th century: the Barcelona’s case**

Lecturer Carles Puig-Pla, Spain

## **Telecommunications: National Systems and International Organizations**

**Session organiser:** Dr. Simone Fari, Italy and Professor Angel Calvo, Spain

**Session chair:** Professor Andrea Giuntini, Italy

### **Panel 1**

**Last in first out. How the Telegraph brought to international organization before Post and Trains**

Dr. Simone Fari, Italy

Dr. Gabriele Balbi, Italy

Professor Giuseppe Richeri, Switzerland

**Why did a public telephone system fail in Spain?**

Professor Angel Calvo, Spain

**On Bell's telephone patents in Europe**

Professor Jesús Sánchez Miñana, Spain

**Urban telephone networks in the Basque Country: significant differences in the three provinces, 1881-1908**

Ph.D. candidate Begoña Villanueva García, Spain

**[Art, Science & Technology for public understanding and media representation of technology in XIX-XXI centuries](#)**

**Session organiser:** Researcher Roman Artemenko, Russia

**Session chair:** Professor Mark Clark, United States

**Panel 1**

**Introducing new norms and new technology to the Danish Housewives 1900-1960**

Researcher Jytte Thorndahl, Denmark

**How is the Public prepared for technical Innovations**

Dr. Colin A. Hempstead, United Kingdom

**Images of the Engineer in American Popular Culture in the 20th Century**

Professor Mark Clark, United States

**Non-textbook education: records, cinema, radio, TV and DIY in soviet system of enlightenment (1930-1970)**

Researcher Roman Artemenko, Russia

**Displaying ideas about technology**

**Session organiser:** Ms. Katariina Mauranen, United Kingdom and Jaume Sastre-Juan

**Panel 1**

**Forest, arts and culture**

Mr. Pekka Virtanen, Finland

**What are technical museums about? The semiotics of technological display at the New York Museum of Science and Industry (1927-1950)**

Ph.D. candidate Jaume Sastre-Juan, Spain

**The Quest for the Technical Soul of the Nation: Technological Displays and Catalan Nationalism (1909-1939)**

Ph.D. candidate Jaume Valentines-Álvarez, Spain

## **Panel 2**

### **Displaying Technological Knowledge in a Museum**

Mr. Kimmo Antila, Finland

### **Machines and ideas. Three interpretations of the Portsmouth block making machines and what they say and don't say about technology.**

Ms. Katariina Mauranen, United Kingdom

## **[From Pythagoras to Trains and Telephones \(In Spanish\)](#)**

### **Panel 1**

#### **A review of the literature on the history of the telephone, 1876-2010**

Ph.D. candidate Villanueva Garcia Begoña, Spain

#### **Did there exist a Pythagorean at the Fountainhead of the “Taulas” of Menorca? (Monuments of the Talayotic culture dating from V—IV B.C. )**

Dr. Vicente Ibañez Orts, Spain

#### **The railroad industry and its heritage in the cultural landscape of Uruguay**

Professor Carola Romay, Uruguay

Researcher Daniel Primucci, Uruguay

Researcher Virginia Etchevarren, Uruguay

## **[From camera obscura to drawing machines and animated cartoons \(In Spanish\)](#)**

### **Panel 1**

#### **Light and science. Proposal for the reading of two engravings of Ars Magna Lucis et Umbrae of Athanasius Kircher**

Dr. Ana Paula Sanchez

#### **Drawing machines and drawing reconstruction**

Professor Fernando Fadón Salazar

Ph.D. candidate Francisco Jose Saiz

Ph.D. candidate Jose Enrique Cerón Hoyos

#### **The choreographies of household technologies in the first animated cartoons**

Researcher Hugo Palmarola

## **[Cultural characters, architectural language and art of the war \(in French\)](#)**

### **Panel 1**

#### **Examination of Cultural Characters of Korean Train Interiors : with Emphasis on**

### **Leading Design Guidelines based on Cultural Theory**

Graduate student Sora Lee-Remond, France

### **Abolition of Architectural Language or Release of a New One**

Dr. Souad Sassi Boudemagh, Algeria

### **The art of the war: tradition and innovation in the iconographic representation of Alentejo fortresses (XVII-XVIII centuries)**

Professor Antónia Fialho Conde, Portugal

## **Transport: Steamships, Railroad Technology and cars**

### **Panel 1**

#### **The Sublime and Technology: steamship travelling across the Atlantic**

Ph.D. candidate Dagmar Bellmann, Germany

#### **“Her Model is Beautiful”: Addressing Fears by Design for the First “Steamship” in History.**

Mr. John Laurence Busch, United States

#### **On the rails from ancient times - Busteni Paper Factory's Narrow Gauge Electric Railway**

Mr. Andrei Berinde, Romania

#### **Strategic monitoring as an opportunity to preserve cultural heritage exemplified by the track harp and historically significant technical monuments in front of Leipzig Main Station, Germany**

Professor Burkhard Pahl, Germany

### **Panel 2**

#### **Engineer's schemes are also design : the shape of the Paris' Métro from the 1860's**

Lecturer Pascal Desabres, France

#### **Technology users as amateur mechanics: The case of the construction and decoration of extemporaneous automobiles in WWII and postwar Greece**

Ph.D. candidate Sofia Alexia Papazafeiropoulou, Greece

#### **Human evolution and the car - Too much power for the legs and not enough for the brain?**

Professor Hermann Knoflacher, Austria

Dr. Harald Frey, Austria

## **Robot-humans and humanlike robots**

### **Panel 1**

#### **From resuscitation dummies to patient simulators: When technology tries to look human**

Professor Constantin Canavas, Germany

## **The Art of the Robot**

Dr. Julie Wosk, United States

**Human-robot / Robot-human. Processes of cultural change brought about by digital revolution. A new era in the history of mankind.**

Professor Anna Pujadas Matarín, Spain

## **Materials I: Iron & sheet metal**

### **Panel 1**

**Made of pieces. Sheet metal processing in Russia at the end of the 19th Century.**

Ph.D. candidate Ekaterina Nozhova, Switzerland

**Exported Styles – The Early Production and Distribution of Cast Iron Building Components**

Professor Axe Sowa, Germany

**Informal Networks of Empire: the Case of Scottish Architectural Ironwork in Argentina**

Ph.D. candidate Lucia Jurarez, Spain

**Progressive dies. History and evolution**

Lecturer Enrique Ceron, Spain

Dr. Fernando Fadon, Spain

## **Materials II: Plastics**

### **Panel 1**

**The definition of the plastic arts: Technique versus Habitus**

Dr. Adi Efal, Germany

**Imitation and Originality in Synthetic Plastics**

Professor Robert Friedel, United States

**Electrical and Chemical engineering in Portugal from 1855 onwards**

Professor Maria Elvira Callapez, Portugal

Professor Ana Paula Silva, Portugal

**A future made of plastics? – exploration of a Sixties Design discourse**

Graduate student Tina Thiel, Austria

## **(Reuse of) Industrial Heritage**

### **Panel 1**

**Regional approaches to the industrial heritage: the Ural's case.**

Researcher Anatoly Kurlaev, Russia

**Hydroelectric heritage in Valtellina. Understanding the local historical interaction**

**between technical development, architecture and landscape.**

Ph.D. candidate Francesco Carlo Toso, Italy

**Between Memory and Goodbye. How theater works with the remains of coal industry in the former GDR and its impact on local society**

Ph.D. candidate Torben Ibs, Germany

**From company museums to the Roman gods: new perspectives in the protection of industrial heritage in Italy.**

Researcher Astrid D'Eredità, Italy

## **Panel 2**

**Industrial heritage reuse - authenticity versus commodification**

Ph.D. candidate Anica Tufegdzic, Serbia and Montenegro

**Industrial Heritage Sites as Neoliberal Spaces of Ordering**

Dr. Duygun Erim, Turkey

Ph.D. candidate Gökçe Öcal, Turkey

**Presentation of Industrial Heritage in the Ural Region**

Graduate student Nadezda Solonina, Russia

## **Exemplary Artefact Studies**

### **Panel 1**

**Power and Glory: A report on the rise and fall of the Australian made portable electric drill.**

Ph.D. candidate Berto Pandolfo, Australia

**You have to know your blood pressure value! Medical Technical Innovations between Research and the Market.**

Dr. Michael Martin, Germany

Professor Heiner Fangerau, Germany

**Podbielniak – a centrifuge, that made the world head-spin**

Dr. Slawomir Lotysz, Poland

### **Panel 2**

**First instruments for the Helsinki School of technology 1850**

Dr. Panu Nykänen, Finland

**Pocket and field instruments in the past. Some examples of the collection of scientific instruments of the Physics Faculty of the University of Barcelona**

Professor Santiago Vallmitjana, Spain

**Spinning Gyroscopes - the 'go' of operative understanding**

Ph.D. candidate Lina Hakim, United Kingdom

## Sound, Music & Silence

### Panel 1

**Experiencing Silence – Are there room for technological sounds?**

Dr. Outi Ampuja, Finland

**Shaping Music in Space: The role of technology in space related music and sound art**

Dr. Martha Brech, Germany

**Technology of iconography in Buddhists caves of Eastern Turkestan. On example of musical instruments.**

Dr. Sanat Kibirova, Russia

**Building Boom: Technology, Luxury, and the Sound Explosion of the 1970s**

Professor Susan Schmidt, United States

## Images of Technology and Science

### Panel 1

**Maximilien Luce's Neo-Impressionist Paintings of Charleroi Blast Furnaces:**

**Aestheticizing Technology in Anarchist Thought**

Ph.D. candidate Corina Weidinger, United States

**Dalí, Le Corbusier and the Presence of Technology**

Dr. Simon Weir, Australia

**Production Lines: the fetishisation of industry in the architectures of Max Ernst**

Dr. Michael Chapman, Australia

### Panel 2

**Science Towns in Russia: A Dichotomy of Technological Drive and Societal Constrains. The Case of Novosibirsk Akademgorodok**

Professor Evgeny Vodichev, Russia

Lecturer Ekaterina Zhimuleva, Russia

**The Social Function of the Technological Aesthetic in Luxembourg's Illustrated Press, 1933-1940**

Dr. Anne-Marie Millim, Luxembourg

**The printing Technology and the Cultural Role of Prints. Case Study: Historical Images of nowadays Romanian Cities**

Dr. Anda-Lucia Spânu, Romania

### Panel 3

**Watermill Technologies in Paintings of Ancient China and Ancient Europe**

Lecturer Xiaolei Shi, China

**Drawing Machines: Illustrations of Steam Engines and the Construction of Industrial Culture in Britain, 1820-1840**

Ph.D. candidate Courtney Salvey, United Kingdom



## **Science and technology representations in paintings of Prado's Museum in Madrid**

Mr. Joan Munt, Spain

### **Panel 4**

#### **The demise of the Darwinian struggle in popular zoological illustration around 1900 and the peaceful power of photography**

Dr. Alexander Gall, Germany

#### **New Vistas, New Visions: The Technological Sublime and the Problem of Landscape in Contemporary Art Photography**

Lecturer Kara Hammond Larrabee, United States

#### **Lost Technology**

Dr. Marta Jecu, Portugal

Dr. Jose Manuel Gomes Pinto

## **Computer graphics & design**

### **Panel 1**

#### **The Roots of Computer Graphics: A patent Literature Analysis**

Mr. Eduardo Perez Molina, Netherlands

#### **The emergence of computer graphics in 3D in France, between creation and industry.**

Ph.D. candidate Cécile Welker, France

#### **Desktop kitch or mirrors of Self? Background images in visual cultural studies**

Professor Maunu Häyrynen, Finland

#### **Artworks' and the point of no return in the history of electronics. The emergence of computer aided computer design.**

Ph.D. candidate Peter Koval, Germany

## **Built Environment and Technological Modernization**

### **Panel 1**

#### **American Grain Elevators, Factories and Modern Mass-Production or: European Architectural Techno-Determinism towards planning the Fordist City**

Ph.D. candidate Sophie Hochhaeusl, United States

#### **Old Technologies, Agrarian Reform, and Social Efficiency: Spain 1900-1950**

Dr. Santiago M. Lopez, Spain

Professor Ricardo Robledo, Spain

#### **"An Idyllic Workers' Community" – Alvar Aalto, Finnish Industry, and the Emerging Town Centre Concept in Regional Planning of the 1940s**

Dr. Markku Norvasuo, Finland

### **Panel 2**

#### **Road design and urban planning in Athens at the turn of the 20th century: in search of a shortcut to modernization.**

Ph.D. candidate Evangelia Chatzikonstantinou, Greece

**Architecture Between Ideology and Technology – Building Socialist Modernism in Former Yugoslavia**

Ms. Dragana Konstantinovic, Serbia and Montenegro

**Films as historical sources**

**Panel 1**

**History of Technology and the Cinema: an experience of reproduction of scientists images by means of the screen**

Professor Vasily Borisov, Russia

**Roman Hydraulic Technology in the Cinema**

Lecturer Francisco Javier Pérez de la Cruz, Spain

**A Short Documentary Film ‘ZAGREB U SVJETLU VELEGRADA’ (‘Zagreb in a Metropolitan Light’): an Urban Satire of the 1930’s as a Historical Source**

Mr. Goran Arcabic, Croatia

**Education and Teaching**

**Panel 1**

**A Medieval Industrial Revolution in the Nineteenth Century: The Case of the City of Riga in the Russian Empire**

Professor Janis Langins, Canada

**The Polytechnic Education of Architects and Civil Engineers in the 19th Century – The Role of Arts, Humanities and Science at the Zurich Polytechnic School**

Dr. Torsten Meyer, Switzerland

Ph.D. candidate Christoph Rauhut, Switzerland

Dr. Knut Stegmann, Switzerland

**How technology is made visible. Technology standards promoted by the Junta para la Ampliación de Estudios: their influence on the teaching curricula**

Ph.D. candidate Leonor Gonzalez, Spain

Dr. Victor Guijarro, Spain

**The teaching of arts applied Industry in Portugal. From Industrial Aesthetics to Design**

Professor Ana Cardoso de Matos, Portugal

Professor Helena Souto, Portugal

**Panel 2**

**SPIRU HARET (1851-1912) – From a Masterly Doctoral Thesis to the Reform of Romanian Education**

Mrs. Eufrosina Otlacan, Romania

**The origins of the technical chemistry studies in Spain.**

Graduate student Ignacio Suay Matallana, Spain

**The Role of Leisure Education in Adapting Traditional Society with Scientific and Technological Development**

Professor Abbas Ardekanian, Iran

Mr. Abbas Hassani, Iran

**Technologies of Buildings**

**Panel 1**

**The Art of Ventilation in Barcelona in the Second Half of the XIX Century**

Dr. Francesc X. Barca-Salom, Spain

**Development of timber and steel-timber trusses in Italy (1800-1950)**

Ph.D. candidate Emanuele Zamperini, Italy

**The Beauty of a Beam. The Continuity of Joan Torras's Beam of Equal Strength in the Work of his Disciples: Guastavino, Gaudí and Jujol**

Lecturer Ramon Graus, Spain

Lecturer Helena Martín Nieva, Spain

**Panel 2**

**The Architecture and Decoration of Ottoman Mosques: Religious Devotion, Art, or Technology?**

Dr. Ahmed Wahby, Egypt

**Balloon Frame in Chile, a foreign integrated expression in our landscape**

Professor Marcela Pizzi, Chile

**Renewing traditional technology**

Researcher David López López, Spain

Ph.D. candidate Marta Domènech Rodríguez, Spain

**Artistic Interpretations of Technology**

**Panel 1**

**Art into Design, or how the Technicity of Design complements and incites the Thingliness of Art**

Dr. Mark Titmarsh, Australia

**AGUSTÍN FERNÁNDEZ MALLO and GERMÁN SIERRA: Two Points of View of Postindustrial Society**

Ph.D. candidate Carlos Gámez, Spain

**Views of early 20th century visionary cities through the lens of auto-mobility.**

Ph.D. candidate Areti Sakellaridou, Greece

**Panel 2**

**Embodiment/Temporalization: Rethinking the Architectural Image**

Dr. Lutz Robbers, Germany

**Rethinking urban space through art and technology: the case of Davide Boriani**

Ph.D. candidate Alessandra Acocella, Italy

**Rethinking urban space through art and technology: the case of François Morellet**

Graduate student Alessandro Gallicchio, Italy

### [Aesthetic Reception of Technology](#)

#### Panel 1

**The complex relations between Homo Technicus Technologicus and Homo Aestaticus in Romania in the historical period 1945-1989/1990. Some maximal / limit case studies**

Professor Elena Helerea, Romania

Professor Liviu Alexandru Sofonea, Romania

**Cultural buildings between technology and art: Casa da Música at the frontier of iconicity**

Ph.D. candidate Joana Ramalho, Portugal

Dr. José Luís Garcia, Portugal

**Aesthetics and construction in industrial production: architecture as a tool for business communication**

Researcher Antonio Monte, Italy

Professor Raffaella Maddaluno, Italy

#### Panel 2

**The demonisation of the Eiffel Tower. The difficulty of introducing an industrial culture, in which the worlds of technology and the arts come together, in 19th-century Paris.**

Professor Robert BELOT, France

**Representation Transformed: Reading The Change from Architectural Periodicals**

Researcher Özlem Altun, Turkey

Researcher Betül Orbey, Turkey

Researcher Nihan Gürel, Turkey

**Modernist architecture and the rise of the aesthetic identity of technology**

Dr. Riccardo Dirindin, Italy

### [Climate change and renewable energy](#)

#### Panel 1

**The Keeling Curve: Causes and Consequences of Global Warming**

Dr. Anthony N. Stranges, United States

**Exploration of the industrial use of solar energy in the nineteenth century.**

Ph.D. candidate Nelson Arellano, Chile

**The Contested Origins of the Biodigester: “Natural” Histories of Energy Technology, Colonial Histories of Waste**

Graduate student Nicole Labruto, United States

## Design, Architecture and Technology

Session chair: Dr. Markku Norvasuo, Finland

### Panel 1

**Invisible Mechanisms of the Modern Interior: Electric Lighting and the Expression of the American "Machine Age" Aesthetic**

Lecturer Margaret Maile Petty, New Zealand

**Merging Design and Culture in New York City's Chrysler Building**

Dr. John Stranges, United States

**Intersections: Office Furniture Design - Technologies - Aesthetics**

Dr. Uber Terrence, United States

### Panel 2

**To buy or not to buy**

Ph.D. candidate Doreen Donovan, Australia

**Consumer society: the role of design**

Ph.D. candidate Ingrid Moura Wanderely, Brazil

Professor Maria Cecília Loschiavo Dos Santos, Brazil

**Zen and Industrial Design? Visions of Japanese Technology during World War II and Beyond**

Dr. Daqing Yang, Japan

## Planning, building and restoring infrastructure

### Panel 1

**T113 History of public works conservation and restoration in Spain**

Dr. Daniel Crespo Delgado, Spain

**T131 Building A Multi-Level Prussian Ruhr, 1898-1928**

Dr. Edmund N Todd, United States

**T237 Public Spaces of Land Road Infrastructure in Imperial Russia: Planning, Building, and Use. 1820-50s**

Dr. Aleksandra Bekasova, Russia

**T274 From the Telegraph to Automated Messages – A History on the Convergence and Integration of Communication and Service Infrastructures**

Ph.D. candidate Carina Lopes, Portugal

## [Technology - Autonomous, communicating or integrated power in history](#)

### Panel 1

#### **Gilbert Simondon and the evolution of technical objects**

Ph.D. candidate Bogdan Dragos, United Kingdom

#### **Global trade networks, competition, and the development of a European system of invention privileges.**

Graduate student Marius Buning, Netherlands

#### **Teams, Tools and Expertise: Technological Innovation in the Italian Packaging Industry, 1960-1998**

Dr. Matteo Serafini, Italy

### Panel 2

#### **Technologies of thermal comfort to transform spatial patterns of a nation, 1955-1980:**

#### **Turkish Iron Casting Co. and Aygaz gas delivery network**

Ph.D. candidate Gokhan Ersan, United States

#### **Technological momentum reconsidered. A Nobel Prize in chemistry and its background.**

Professor Bo Sundin, Sweden

## [Design, Education and Technology](#)

### Panel 1

#### **"The Goal is the Invention." - Technical Innovations from Bauhaus Students**

Ph.D. candidate Yvonne Blumenthal, Germany

#### **The parallel worlds of technology and architecture**

Dr. Ted Cavanagh, Canada

#### **Pioneer institutions of industrial design in Portugal (1960-74): the Industrial Design Nucleus of the National Institute of Industrial Research**

Professor Maria Helena Souto, Portugal

## [Reproducibility and standardisation](#)

### Panel 1

#### **The factory object to the test of reproducibility (1750-1880): rupture industrial, economic and cultural**

Ph.D. candidate Millet Audrey Patrizia, France

#### **The Master at the Royal Mint: How much money did Newton save Britain?**

Dr. Ari Belenkiy, Canada

**"Notes on research into standardisation in Japan at the beginning of the industrial age, 1880s~1950s"**

Dr. Anne Gossot, France

**The machines in the production processes of the agro-food industry From the models of the proto industry to the early patents**

Researcher Antonio Monte, Italy

## **Technological Literacy and Concepts**

### **Panel 1**

**Joint Conditions: Theoretical Resources in the Humanities to Interpret the Visual Turn in the Techno Sciences**

Dr. Victoria Höög

**How to draw out attitudes towards technological literacy and class in modern Japan**

Dr. Sarah Teasley

**Producing 'Technology' in the social sciences: the history of a concept, c.1900**

Dr. Daniel C.S. Wilson

### **I.2 Poster Session**

**Estonian Technical Schools in Germany after the Second World War**

Dr. Vahur Mägi, Estonia

**Listening and Creating: The significance of the radio and the sewing machine in the Greek household culture (1955-1965).**

Dr. Johannis Tsoumas, Greece

**Cultural impacts of mining industry in Atacama desert, Chile and Lausitz region, Germany. Proposal for a documentary**

Ph.D. candidate Torben Ibs, Germany

**The Effect of Using Industrial Equipment on Handicraft Workshops (Special Case: Woodcarving)**

Ms. Nazanin Akbarian Dehaghani, Iran

Ms. Helianeh Malekipour, Iran

Ms. Fatemeh Safikhani, Iran

Ms. Zahra Alikhani, Iran

Assistant Prof.Hassan Sadeghi Naeini (PhD), Iran

### **Toledo's Water Supply: Roman Approach as the Origin of the Final Solution**

Lecturer Francisco Javier Pérez de la Cruz, Spain

### **The role of workshop equipment of universities in theses of industrial design students (a case study among some universities of Iran, Tehran)**

Ms. Nasim Haghighi, Iran

Ms. Sara Rezaei, Iran

Ph.D. candidate Hasan Sadeghi naeini, Iran

### **Ecological Responsi(ve)bility**

Professor Bradley Cantrell, United States

Professor Frank Melendez, United States

### **Technology and Design in the evolution of Industrial Bent Wood Procedures.**

Researcher Julio Vives Chillida, Spain

### **New materials in jewellery: an approach to consumers through new technological and symbolic resources.**

Ph.D. candidate Andrea Medina Gómez, Colombia

Dr. Bernabé Hernandis Ortuño, Spain

Ph.D. candidate José Rafael González Díaz, Venezuela

## **II. Challenges for the History of Technology in Spain**

Antoni Roca-Rosell, Universitat Politècnica de Catalunya, Barcelona

The transformation of Spanish society in recent decades raises the challenge of understanding the role of technology in these changes. This challenge is probably even more urgent in a context of crisis, in order to be aware of and to evaluate the options taken in the past. The History of Technology, therefore, constitutes much more than a mere knowledge of the past, but also a relevant element for the analysis of the present situation.

Recently, thanks to the initiative of Ian Inkster and Ángel Calvo, as editors and promoters of volume 30 (2010) of the journal *History of Technology*, a good opportunity has arisen to determine the main fields of research into the History of Technology on Spanish subjects. Inkster and Calvo have assembled 16 papers from Spanish and non-Spanish scholars dealing with technology in Spain from the XVII to the XX centuries.<sup>1</sup> These papers are

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<sup>1</sup>The authors are: Juan Helguera (University of Valladolid); Irina Gouzévitch and Dmitri Gouzévitch (EHESS, Paris); Antoni Roca-Rosell and Carles Puig-Pla (Universitat Politècnica de Catalunya – Barcelona Tech); Nadia Fernandez de Pineo (Autonomous University of Madrid); David Pretel (University of Cambridge); J. Patricio Saiz (Autonomous University of Madrid); Manuel Silva Suárez



organized under the titles: Knowledge, Manufacturing, and Telecommunications and Public Works, which are representative of the main fields of interest of historians in Spanish subjects dealing with technology.

During the last third of the XX century, a process of professionalization of the history of technology took place.<sup>2</sup> It is interesting to note the coincidence between several projects concerning different fields of engineering. Regarding civil engineers, the historian Antonio Rumeu de Armas (1912-2006) was commissioned to write a history of the origins of this profession in Spain in which he gave a prominent role to Agustín de Betancourt (1758-1824), a pioneer of Spanish engineering, who promoted the first institutions in the country.<sup>3</sup> Fernando Sáenz Ridruejo (born in 1939) studied the development of the civil engineers' collective and its contribution to the modernization of the network of infrastructures in Spain in the XIX and XX centuries.<sup>4</sup> José Antonio García-Diego (1920-1994)<sup>5</sup> played an important role in research and the promotion of studies. In 1982 he founded a Spanish Association for the History of Technology that subsequently formed part of the Spanish Society of History of Science and Technology. In 1987 he set up the Fundación Juanelo Turriano, to which he donated his private library. García-Diego played a relevant international role as president of ICOHTEC (1989-1993).

The renewal of the historiography of science promoted by José María López Piñero (1933-2010) included technology. We should mention this author's programmatic study on science and technology in Spain in the XVI and XVII centuries, which appeared in 1979.<sup>6</sup> López-Piñero stated that an impressive system of technology including navigation, ship building, mining, metallurgy, fortification, artillery and architecture was developed during the Spanish Empire. Some Spanish contributions were instrumental in the renewal of Western technology in that period. López-Piñero and his collaborators, such as Víctor Navarro-Brotons, Eugenio Portela and Thomas F. Glick, brought together the history of science, the history of technology, and the history of medicine in their *Diccionario histórico de la ciencia moderna en España* (1983).<sup>7</sup>

In Valladolid, Nicolás García Tapia (born in 1940) developed research into technology in Spain during the Renaissance, initiating a research group with Isabel Vicente Maroto and

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(University of Zaragoza); Isabel Vicente Maroto (University of Valladolid); Alex Sánchez (University of Barcelona); Àngels Solà (University of Barcelona); Esteve Deu (Autonomous University of Barcelona); Montse Llonch (Autonomous University of Barcelona); Nuria Puig (Complutense University of Madrid); Joan C. Alayo Manubens (UNESCO Chair of Technology and Culture; Universitat Politècnica de Catalunya – Barcelona Tech); Francesc Barca Salom (Universitat Politècnica de Catalunya – Barcelona Tech); Àngel Calvo (University of Barcelona); Jesús Sánchez Miñana (Telecommunications School, UPM, Madrid); Santiago López García (University of Salamanca).

<sup>2</sup>Roca-Rosell, 1993, 2010.

<sup>3</sup>Rumeu de Armas, 1980. There are many recent studies on Betancourt. See Chatzis; Gouzévitch; Gouzévitch, 2009.

<sup>4</sup>Sáenz-Ridruejo, 1990; 2005.

<sup>5</sup>Hormigón, 1994.

<sup>6</sup>López-Piñero, 1979.

<sup>7</sup>López-Piñero et al, 1983.

Mariano Esteban Piñero. García Tapia made use of the royal archives at Simancas and analyzed contributions from leading engineers in the XVI and XVII centuries.<sup>8</sup> In Barcelona, Guillermo Lusa (born in 1941) promoted a research group on the history of science and technology, one of whose main objectives was the history of the Barcelona School of Industrial Engineering, established in 1851.<sup>9</sup> This group, created by Lusa, founded the journal *Quaderns d'Història de l'Enginyeria* in 1996, the only journal devoted to the history of technology in Spain.<sup>10</sup> Also in Barcelona, Horacio Capel (born in 1941) promoted a research group on the history of geography and earth sciences, with a special interest in urban and territorial planning. This led him and his collaborators to the study of the role played by engineers, including military engineers, forestry engineers, and agricultural engineers. Capel and his group have also been interested in technical networks, including telegraphy, electricity, telephone, and gas.<sup>11</sup> In the case of telecommunications, Sebastián Olivé and Jesús Sánchez Miñana published new approaches to this type of engineering in Spain.<sup>12</sup>

Economic historians have also contributed to the history of technology. Their approach is dedicated to technologies which are relevant for industrial development. An important contribution coordinated by Jordi Maluquer de Motes, at the Autonomous University of Barcelona, in 2000, consists of a collection of studies carried out in the previous period by authors such as Jordi Nadal and Alex Sánchez.<sup>13</sup> Other historians are dealing with technology in Catalonia and Spain, such as Ángel Calvo, from the University of Barcelona, who is interested in the history of telecommunications and has studied the first phase in the history of the main telephone companies. Santiago López García, at the University of Salamanca, has evaluated the loss of human capital produced by the Spanish Civil War (1936-1939) and technological development during the Franco regime.

The historiography of science has included the analysis of technology. In this sense, we have the work of the arabist Joan Vernet (1923-2011) with his studies on Islamic science in Spain or his *History of Science in Spain*.<sup>14</sup> This is also the case of recent collective works on the history of science in Spain, such as those supervised by Josep M. Camarasa and Antoni Roca-Rosell on Catalan scientists,<sup>15</sup> the history of science and technology under the Crown of Castille, supervised by Luis García Ballester (1936-2000), and the history of science in the Catalan countries supervised by Vernet and Parés.<sup>16</sup>

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<sup>8</sup>García Tapia, 1997, 2003.

<sup>9</sup>See the 21 volumes of the collection edited by Lusa: *Documentos de la Escuela de Ingenieros Industriales de Barcelona* (<https://e-revistas.upc.edu/handle/2099/82>).

<sup>10</sup>The journal has a on-line version: <https://e-revistas.upc.edu/handle/2099/5>.

<sup>11</sup>The journal *Geocrítica*, created in 1976 by Capel and his collaborators, is a web site on geography, social sciences, and history of science and technology. It was launched in 1994. <http://www.ub.edu/geocrit/menu.htm>

<sup>12</sup>Olivé (2004); Sánchez-Miñana (2004).

<sup>13</sup>Maluquer de Motes (dir) (2000).

<sup>14</sup>Vernet (1975; 1978).

<sup>15</sup>Camarasa; Roca-Rosell (1995)

<sup>16</sup>García Ballester (dir.) (2002); Vernet; Parés (dir.) (2005-2009).

Perhaps the most relevant contribution to the historiography of technology in recent times arose as results of an initiative by Manuel Silva Suárez (born in 1951), a professor at the University of Saragossa. He has organized a biennial course on the history of engineering, and on the basis of these lessons and other contributions has published six volumes on the history of engineering in Spain, from the Renaissance until the XIX century.<sup>17</sup> He plans to publish one more volume on the XIX century, and perhaps three on the XX century. Despite the fact that the collection is not complete, the six volumes represent the most important contribution to the history of technology of Spain.

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<sup>17</sup>Silva-Suárez (ed.) (2004-2011).

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### III. Conference Reports

#### **Frost, Ice, and Snow: Cold Climate in Russian History**

Conference at the German Historical Institute, Moscow, in February 2012

Saskia Geisler, Ruhr-Universität Bochum, [Saskia.Geisler-r8r@ruhr-uni-bochum.de](mailto:Saskia.Geisler-r8r@ruhr-uni-bochum.de)

In January 2012 inhabitants of the Northern Hemisphere experienced firsthand how much cold can influence our daily life. The fact that tabloid newspapers in Western Europe referred to it as “Russian cold” demonstrates the strength of the popular association of Russia with cold. It is therefore all the more fitting that the conference “Frost, Ice, and Snow: Cold Climate in Russian History” followed in the footsteps of this cold spell, bringing these topics into connection with each other. At the conference, which was organized by the German Historical Institute in Moscow and the Rachel Carson Center for Environment and Society and took place between 16 and 18 February 2012, scholars of environmental history, philosophy, and geography, as well as religious, film, and literary studies discussed the influence of cold climate on the Russian culture and history.

After the greeting by Nikolaus Katzer, the director of the German Historical Institute in Moscow, JULIA HERZBERG (Munich) introduced the goals of the conference, with the primary aim being to shed light on the relationship between environment and the study of history. She mentioned the discrepancy between the significance of climate for particular historical events in Russian history and the ignorance of historians up to now concerning these factors. Herzberg emphasized that the conference not only aimed to look at the gaps in research but also offered an opportunity to discuss the reasons why environmental history and climatic factors have played a minor role in previous historical scholarship. Furthermore the conference hoped to bring about a shift in focus within the environmental history of Russia and Eastern Europe. A large proportion of environmental history studies of the Russian Empire and the Soviet Union consider nature and the environment one-sidedly as a target of human activity. The conference offered a chance to understand the relationship between nature and society as truly interdependent. It also presented new directions in research by looking at the history of science, as well as placing everyday practices and issues of risk and vulnerability at the center of the discussion and offered an opportunity to

discuss how individual and collective identities are created through discussions about cold and what significance these representations have for the understanding of oneself and others.

The first session was dedicated to ways of dealing with cold in everyday life and during the war. SVETLANA A. RAFIKOVA (Krasnojarsk) focused on adaptive practices, showing how city dwellers in the Krasnojarsk region in the 1960s managed the cold weather, developing a specifically Siberian culture. KATARZYNA CHIMIAK (Warsaw) presented her dissertation project, in which she compares Dnepropetrovsk, Łódź, Essen and Manchester during the hard winter of 1946/47. A central question was whether and to what degree different social and economic structures led to different strategies for adaptation. The second half of the session was concerned with cold climate during the war. ANTHONY J. HEYWOOD (Aberdeen) lectured on its effects on railroads from the First World War through the February Revolution of 1917. Heywood argued against the thesis that the difficulties with transportation and distribution of supplies resulting from the snow and extreme cold were a primary cause for the February Revolution. ALEKSANDER L. KUZ'MINYKH (Vologda) examined the influence of the Russian winter on German soldiers first on the front and later in prisoner of war camps in and after the Second World War. He discussed why Russian and Soviet historians of World War II have ignored the importance of climate for so long.

The second session, "Coping with Cold" looked at the function of cold and snow both as a threat and as a focal point for building a common identity, as well as serving a recreational function. Using a catastrophic avalanche in the Khibiny Region on the Kola Peninsula in 1935, ANDY BRUNO (Urbana-Champaign) showed how socially produced vulnerabilities are expressed environmentally. Peasants forced to migrate during the settlement and industrialization of the north were most exposed to the dangers of avalanches. The tragic event was a catalyst for renewed efforts to scientifically predict the likelihood of avalanches. The presentation of MARC ELIE (Paris) also focused on a catastrophic avalanche, looking at the disaster in 1966 in Alma-Ata. Avalanches, he argued, present the greatest threat to city growth and sport tourism. Elie showed how a local disaster in central Asia led to avalanches becoming a focus of scientific, technological, and government efforts. The phenomenon of cold also influenced the formation of masculine identity and cultural heroes, as ALEKSANDR ANAN'EV (Moscow) showed using examples of polar explorers and hockey players. ALEKSEI D. POPOV (Simferopol') offered a new perspective on the history of tourism with his presentation on Soviet winter tourism as a seasonal phenomenon. He described how the significance of winter tourism changed over the decades from the 1920s to the 1990s. It ceased to function as ideological and physical training in preparation for wartime duties.

In his concluding remarks KLAUS GESTWA (Tübingen) reflected upon the results of the conference, identified a number of central themes and suggested possibilities for further research. In many presentations, he noted, the human, societal and economic costs of the harsh climate were particularly evident. At the same time, events such as Napoleon's

invasion of Russian in 1812 or the Second World War also had a protective function. The conference showed, Gestwa concluded, how closely the history of cold is linked with science and technology. Above all the history of science during the Cold War, which was the subject of multiple presentations, showed that during the Cold War the investigation of *cold*, of all things, offered opportunities for scientific collaboration which transcended ideological differences. Gestwa expressed regret that the majority of presentations approached the cold regions from the point of view of outsiders, while the perspective of the indigenous population was only rarely considered. He proposed using the dichotomy “challenge” and “threat” as analytical categories and giving further consideration to the problem of whether nature can be described as an agent or actor. In the final discussion conference participants suggested other topics for further investigation, for example, to look more closely at ways of dealing with cold in everyday life, at the connection between climate and perceptions of space, as well as linguistic aspects of the subject. Many contributions to the conference made clear that cold can develop its own dynamic, demonstrating that nature is more than just an object of human activity.

The whole report is published in: H-Soz-u-Kult, 10.04.2012, <http://hsozkult.geschichte.hu-berlin.de/tagungsberichte/id=4184>

## **IV. Congress Announcements**

**10 – 12 May 2012**

### **Poverty in Modern Europe. Micro-perspectives on the Formation of the Welfare State in the 19th and 20th Centuries**

German Historical Institute, London

Please find more information on:

[http://www.ghil.ac.uk/events\\_and\\_conferences/conferences\\_and\\_workshops/2012/poverty.html](http://www.ghil.ac.uk/events_and_conferences/conferences_and_workshops/2012/poverty.html)

Please find the program on <http://hsozkult.geschichte.hu-berlin.de/termine/id=19059>

Please contact: Carole Sterckx, [sterckx@ghil.ac.uk](mailto:sterckx@ghil.ac.uk)

**27 – 29 June 2012**

### **Autostädte. Wachstums- und Schrumpfungsprozesse in globaler Perspektive / Motor Cities. Processes of booming and shrinking in global perspective**

Helmut-Schmidt-Universität Hamburg, Institut für Zeitgeschichte und Stadtpräsentation (IZS) der Stadt Wolfsburg, Gesellschaft für Stadtgeschichte und Urbanisierungsforschung  
Wolfsburg, Germany

Please find the program on <http://hsozkult.geschichte.hu-berlin.de/termine/id=19087>

Please contact Prof. Dr. Martina Heßler, Modern Social, Economic and Technological History, Helmut Schmidt University, Hamburg, [mhessler@hsu-hh.de](mailto:mhessler@hsu-hh.de)

**26 – 28 September 2012**

**Nichtwissen. Phänomene - Funktionen – Forschung / Gaps of Knowledge.**

**Phenomenon – Opportunities – Research**

Mainz

CFP – Deadline **31 July 2012**

Please contact Timo Engels, Flensburg University, [timo.engels@uni-flensburg.de](mailto:timo.engels@uni-flensburg.de) and Verena Lehmbruck, Jena University, [verena.lehmbruck@uni-jena.de](mailto:verena.lehmbruck@uni-jena.de).

**27 – 29 September 2012**

**Physics, Astronomy and Engineering**, XXXII Congress of the Italian Society of the Historians of Physics and Astronomy (SISFA)

Faculty of Engineering, University of Roma La Sapienza, Italy

CFP – Deadline **31 May 2012**

Welcome to the XXXII International Congress of the *Italian Society of the Historians of Physics and Astronomy* (SISFA) which is being held in Roma in collaboration with the Research Centre for Theory and History of Science (RCTHS) and the Faculty of Engineering, University of Roma La Sapienza.

### **An outline**

In the nineteenth century Europe the figure of the scientific engineer is emerging. In Paris the *Grandes Écoles* were founded, where the most distinguished mathematicians of his time and drew up treaties taught to students. Of 1794 is the *École Polytechnique*, a military school for the training of engineers, Monge and Lagrange were among the first professors of mathematics. In 1794 the *École Normal Paris* was also born that lasted a few years and on its ashes, in 1808, the *École Normale Supérieure* was founded, a school that had as its goal the training of teachers of both science and humanities. On this model, with a Napoleonic decree of 1813, it was established the first foundation of the *Scuola Normale in Pisa*. The attention of the French mathematicians toward applications was therefore, at least in part, due to the need of educational institutions to train technicians for the new state. Such an attitude is not found in Germany, the country that in the nineteenth century was with France at the forefront of European mathematics. In fact, when Prussia was still submissive to Napoleon but enjoyed a certain independence, the education minister Wilhelm von Humboldt undertook a reform of the curriculum of university by following the neo-humanist ideal which aimed at an universal education (and theoretical) of the individual. According to the idea of von Humboldt, which also founded the University of Berlin in 1810, the modern scientist had to study science as such, without focusing too much on its possible applications. The neo-humanist ideal expressed in the reform of von Humboldt also influenced the study of mathematics in the nineteenth century Germany. On the one hand, great importance was

attributed to purely theoretical disciplines, such as number theory and abstract algebra, on the other hand the "natural philosophy" aim to frame in the same theory at all the physical disciplines. In any case in Germany a great engineering school developed which become dominant in Europe. But interaction between scientist and engineer has existed since ancient times.

### **The aim**

The general theme of the XXXII SISFA Congress is to analyse historical problems related to the use of physics, mathematics and geometry in applied sciences, to be covered by a series of invited speakers. A main question is: When and why the tension between mathematics, physics, astronomy, gave rise to a new scientific discipline, the modern engineering?

Individual contributions within the following areas: Anthropology, Archives, Epistemology of science, Foundations of science, Historical epistemology, History and epistemology of chemistry, History and epistemology of cosmology, History and epistemology of physics, History and epistemology of science, History epistemology of mathematics, History of architecture, History of astronomy, History of biology, History of chemistry, History of cosmology, History of engineering, History of foundations of science, History of medicine, History of physics, History of science, History of science and education, History of science and logics, History of science and technique, History of science and technology, History of science and technology, History of science, society and industry, History of scientific ideas, History of scientific institutions, History of scientific instruments, History of technology, Museum, Philosophy of mathematics, Philosophy of physics, Philosophy of science.

Please visit up above cited areas in 'Register & Submit an abstract'

<[http://www.rcths.zcu.cz/index.php?option=com\\_chronoforms&view=form&Itemid=200&lang=en](http://www.rcths.zcu.cz/index.php?option=com_chronoforms&view=form&Itemid=200&lang=en)>

Please use our online submission system (preferred) on the general page:<http://www.rcths.eu/> (See link "SISFA 2012").

Please contact: Raffaele Pisano, European Society for the History of Science, [pisanoraffaele@iol.it](mailto:pisanoraffaele@iol.it)

**11 – 13 October 2012**  
**'German Science' in Southern Europe 1933-45**  
Lisbon  
CFP – Deadline **15 June 2012**

Science in National-Socialist Germany – the term 'Science' being here understood in the broadest sense of 'Wissenschaft', including both 'Naturwissenschaften' and 'Geisteswissenschaften' – has been the object of several conferences and studies since the sixties. However, and in spite of the interdisciplinary openness that some of them may show (mainly those published after the eighties), most of these studies still tend to operate at national



levels, hence reproducing, to a certain extent, the typical parochiality of the cultural and political systems they analyze.

The European fascist period is certainly a time of exclusions, disruptions, and confrontations, but it is also a time of network building and scientific and cultural exchange: the exhibitions, public lectures, academic or even touristic exchange that Germany organizes between 1933 and 1945 in the southern European countries (from Portugal to Romania, not forgetting Spain, Italy or Greece) reflect a hybrid (i.e. political and scientific) concern to be “recognized and imitated” (to put it in the words of the Hamburger romanist and NSDAP member Wilhelm Giese).

The conference will address Science in National-Socialist Germany from the point of view of its relations, namely with southern Europe, considering not only the political internationalization of the fascist regimes, but also the important role that international cultural relations and scientific networking played in the process.

The conference welcomes paper proposals from a broad range of disciplines. Questions that could be addressed, especially on case studies examples, might include, but are not limited to:

- a.. Knowledge & Technology transfer
- b.. Circulation and appropriation of Knowledge
- c.. Fascism, Science, Culture
- d.. Fascist Scientific Policies
- e.. Science and the Economics of War
- f.. Networks: Actors, Institutions, Events, Disciplines
- g.. Academics: Exchange and Exile
- h.. Influence, Persuasion, Coercion: Science, Culture and the ‘Weltanschauungskrieg’
- i.. Crossing Borders: the Role of Science and Culture in the Internationalization of Fascism

The Conference is hosted by the Faculty of Social and Human Sciences, New University of Lisbon, and organized by the Research project The Power of Science; German Science in Portugal, 1933-45, <http://pos.fcsh.unl.pt>.

A selection of papers presented at the Conference will be published in a book.

Graduate and Postgraduate students are strongly encouraged to submit papers on research in-progress or recently completed studies.

Submission of Abstracts:

Please submit a paper abstract (300 words) and a short CV via

<http://pos.fcsh.unl.pt/conference>

Please visit: <http://pos.fcsh.unl.pt/>

Please contact the organizers by: [pos.conference@gmail.com](mailto:pos.conference@gmail.com)

**3 – 6 April 2013**

**ASEH Conference**

Toronto, Canada

CFP – Deadline **15 June 2012**

The ASEH invites proposals for its 2013 conference that will convene 3-6 April in Toronto, Canada - North America's fourth largest city and one of the fastest growing and most ethnically and linguistically diverse places on the continent. Toronto's location, amid lakes and rivers, has long made it a site of confluences and crossings. An important aboriginal fishing site, a key portage during the fur trade, and now a "global city," the Toronto region has at different moments been a nodal point for flows of fish, furs, peoples, and capital.

Environmental history challenges many familiar boundaries. Our theme, "Confluences, Crossings, and Power" calls attention to flows and boundary-crossings, while also highlighting the role of power in shaping movements and their direction. We seek papers and panel proposals that engage with this theme in many different guises: political borders and the flows across them; the interactions of water and land; the crossings of peoples, species, and cultures; movements of pollutants across landscapes and bodies; resource and commodity flows; urban-hinterland relationships; the flows and frictions that constitute "globalization"; the crossing of intellectual boundaries; and the emergence of transdisciplinary collaborations. We also see the conference's location in Toronto as an opportunity to encourage non-US topics, transnational and comparative perspectives, and presentations focused on the Great Lakes and high-latitude regions.

### **Submission Guidelines**

The program committee invites panel, roundtable, individual paper, and poster proposals for the conference on these and other topics. We aim to include sessions that cover the globe, all eras of history, and that engage with other important historical themes including race, gender, imperialism, and diaspora histories. We welcome teaching sessions, non-traditional formats, and sessions that encourage active audience participation. We encourage panels that include historians at different career stages and different types of institutions (academic and public) and that are gender and racially diverse. We strongly prefer to receive complete session proposals, although we will endeavor to construct sessions from proposals for individual presentations. To find possible presenters for your panel, consider posting an idea on H-Environment at least one month before the CFP deadline of June 15, 2012.

Sessions will be scheduled for 1.5 hours. Please note that it is ASEH policy to allow at least 30 minutes for discussion in every session. No single presentation should exceed 15 minutes, and each roundtable presentation should be less than ten minutes since roundtables are designed to maximize discussion. Commentators are allowed but not required. Please note that individuals can present or comment on only one panel, roundtable, or poster session in addition to chairing a second session.

All conference participants are expected to register for the annual meeting.

The proposal submission system will be available online ([www.aseh.net](http://www.aseh.net)) in May 2012.

If you have any questions, please contact a member of the 2013 program committee:

John Soluri, Carnegie Mellon University, Chair, [jsoluri@andrew.cmu.edu](mailto:jsoluri@andrew.cmu.edu)

Colin M Coates, York University, [CCoates@glendon.yorku.ca](mailto:CCoates@glendon.yorku.ca)

Linda Nash, University of Washington, [lnash@u.washington.edu](mailto:lnash@u.washington.edu)

Michelle Murphy, University of Toronto, [michelle.murphy@utoronto.ca](mailto:michelle.murphy@utoronto.ca)

Graeme Wynn, University of British Columbia, [gawynn@interchange.ubc.ca](mailto:gawynn@interchange.ubc.ca)

The next ASEH Conference will be held in San Francisco, 12-16 March 2014.

Please visit: <http://aseh.net/conference-workshops/toronto-conference-2013/call-for-proposals>

#### **4 – 6 April 2013**

**Nature and Technology in French History**, The 59th Annual Society for French Historical Studies conference

Cambridge, MA

CFP – Deadline **1 September 2012**

The 59th Annual Society for French Historical Studies conference will be held at the Cambridge Marriott Hotel in Kendall Square, Cambridge MA, from Thursday, April 4, through Saturday, April 6, 2013. It will be hosted jointly by the Massachusetts Institute of Technology and Harvard University. Jeff Ravel (MIT) and Mary Lewis (Harvard) are the co-organizers.

The theme for this conference will be “Nature and Technology in French History.” Plenary sessions will include a presentation by Robert Darnton, the Carl H. Pforzheimer University Professor and University Librarian at Harvard University, on digital technologies and the practice of history; a session on the digital humanities from the perspective of both researchers and granting agencies; and a roundtable on trends in the environmental and technological history of France and its colonies featuring Michael Bess, Caroline Ford, and Jean-François Mouhot. There will be a Friday night reception at the Harvard Museum of Natural History and a Saturday evening banquet in the new wing of MIT’s Media Lab Building, from which we will enjoy a spectacular view of the Charles River and the Boston skyline.

The conference theme, “Nature and Technology in French History,” shall be understood broadly. The Program Committee also welcomes papers and proposals on all subjects in the history of France, its colonies, and other Francophone countries, from the middle ages to the contemporary period. We encourage individuals to organize complete panels composed of three papers, a chair and a commentator—including panels that cut across traditional periodizations. Roundtables and other formats will also be considered. In conjunction with the SFHS Technology Committee, we also welcome proposals for sessions to be webcast, on topics of broad interest.

Proposals should include the following items, integrated into one file (preferably a PDF): an abstract (no more than 1 page) for each paper; a CV (no more than 1 page) for each presenter, including contact information; and the proposed chair’s and commentator’s names, affiliations, and email addresses. Please submit complete proposals to [sfhs2013@fas.harvard.edu](mailto:sfhs2013@fas.harvard.edu). Please do not send proposals for papers that have already been presented or are scheduled for presentation elsewhere, or that have already been published. Please be very specific regarding your audio-visual needs at the time of submission. The financial well-being of SFHS depends on membership dues. All conference participants must be members in good standing of SFHS at the time of the conference. If you are not already a member, please join now by logging on to the Duke University Press site. There are reduced membership fees for students.

All sessions will be held at the Cambridge Marriott Hotel, Harvard, and the Massachusetts Institute of Technology. The hotel is located adjacent to the MIT campus in Kendall Square, a rapidly developing area of East Cambridge that is home to many high-tech companies and interesting restaurants and businesses. Harvard Square in Cambridge, and the Waterfront, Back Bay, and the Fenway in Boston, are all easily accessible via public transportation. The special hotel rate will be \$169.00 per night.

Please visit: <http://sfhs2013.fas.harvard.edu/icb/icb.do>

## **20 – 24 August 2013**

### **Circulating Natures. Water – Food – Energy, ESEH Conference 2013**

Ludwig-Maximilians-Universität, Munich

CFP – Deadline **15 September 2012**

The European Society for Environmental History (ESEH) is pleased to invite proposals for sessions, roundtables, papers, posters and other, more experimental forms of communicating scholarship for its upcoming biennial conference in Munich, Germany.

The conference will be hosted and organized by the Rachel Carson Center for Environment and Society (RCC) and held at LMU Munich (LMU: Ludwig-Maximilians-Universität München) from 20-24 August 2013.

Situated in close proximity to lakes and mountains, Munich is known for its diversity of landscape, its environmental initiatives, its strong academic institutions, its cultural heritage and history, as well as its food and drink, and exceptionally high quality of life.

Please find the cfp on [http://www.eseh2013.org/tl\\_files/Data/Images/ESEH13-CallForPapers.pdf](http://www.eseh2013.org/tl_files/Data/Images/ESEH13-CallForPapers.pdf)

## V. Summer Schools

**28 – 31 August 2012**

**ESEH 2012 Summer School. Natural resources: historical ideas, exploration, and exploitation**

St. Petersburg

Deadline for application **15 May 2012**

The European Society for Environmental History (ESEH) is happy to announce its third annual Summer School. It will take place in St. Petersburg, Russia, from August 28 to August 31, 2012, and it will be hosted by Dr. Julia Lajus (Department of History, National Research University Higher School of Economics; and Center for Environmental and Technological History at the European University at St. Petersburg). The sponsors of the summer school are the European Society of Environmental History, the Rachel Carson Center for Environment and Society in Munich, and the Estonian Center for Environmental History (KAJAK).

The theme of the Summer School is:

Natural resources: historical ideas, exploration, and exploitation

Doctoral students who are members of the ESEH are welcome to apply. If the student wishing to attend is not yet a member, an ESEH membership application should be completed before applying for the school. More details about the application process are available in the Summer School's call for applications.

A proposal outlining the research paper to be submitted and where it fits into the larger PhD work in no more than 400 words and a 2-page CV should be sent to Dr. Dolly Jorgensen, Chair of the Summer School Committee, e-mail [dolly@jorgensenweb.net](mailto:dolly@jorgensenweb.net). The deadline for submission of the applications is 15 May 2012.

Please visit: <http://eseh.org/eseh-2012-summer-school-in-st-petersburg/>

## **VI. Recently Published Books**

Arcadia: Online Explorations in European Environmental History, on <http://www.environmentandsociety.org/arcadia>

Arcadia is a new online environmental history resource with encyclopedia-like articles, images, and links about any site, event, person, organization, or species as it relates to both nature and human society. While initial contributions come from ESEH members and will focus on the field of European environmental history the project will eventually expand to include non-ESEH contributors and cover all world regions. The project is organized by the Rachel Carson Center for Environment and Society (RCC) and the European Society for Environmental History (ESEH).

## **VI. Join ICOHTEC**

An ICOHTEC membership makes you a member of the scholarly network of the UNESCO-based International Committee for the History of Technology, ICOHTEC.

The membership includes:

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