



Μ Ε Δ Ε Α 2021

MUTATIONS

Ninth International Interdisciplinary Symposium on Art, Science and Technology
MEDEA 2021 Mutations. 4-11.09.2021. Thessaloniki and Paralia Katerinis.

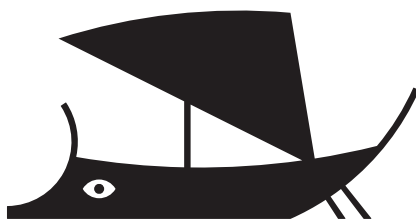


Μ Ε Δ Ε Α

The Medea Symposium is an interdisciplinary meeting in the border of science, art and technology that assumes the exchange of ideas from different fields of knowledge, which is intended to lead to non-standard connections between disciplines that are leveling the traditionally existing divisions. The frames of the symposium are successively expanded. This year five panels will take place, on the subject of art (main panel), science (FNMA, PTA), social sciences (ISLICS), economical sciences (ITS) and six accompanying exhibitions. The conference along with the accompanying exhibitions will take place at the Art & Technology Center NOESIS in Thessaloniki and Rea Hotel in Paralia Katerinis in Greece.

The International Interdisciplinary Symposia on Art, Science and Technology Medea are carried out since 10 years. Eight editions of the Medea Symposium took place in the past:

- International Art-Science-Technology Workshop MEDEA 2011 Exploring the Unvisible Spaces, Szczecin, Poland, 2011.
- Second Art / Science / Technology Workshop MEDEA 2014, Media-Design-Architecture, Szczecin, Poland, 2014.
- Third International Symposium on Art, Science and Technology MEDEA 2015 Back to the Future, Zakynthos, Greece, 2015.
- Fourth International Interdisciplinary Symposium on Art, Science and Technology MEDEA 2016 Summa Technologiae, Zakynthos, Greece, 2016.
- Fifth International Interdisciplinary Symposium on Art, Science and Technology MEDEA 2017 Physis | Morphosis, Heraklion, Greece, 2017.
- Sixth International Interdisciplinary Symposium on Art, Science and Technology MEDEA 2018 Gene | Meme | Techne, Thessaloniki, Greece, 2018.
- Seventh International Interdisciplinary Symposium on Art, Science and Technology MEDEA 2019 Broken Symmetry, Athens, Greece, 2019.
- Eight International Interdisciplinary Symposium on Art, Science and Technology MEDEA 2020 Events Horizon, Syros, Greece, 2020.

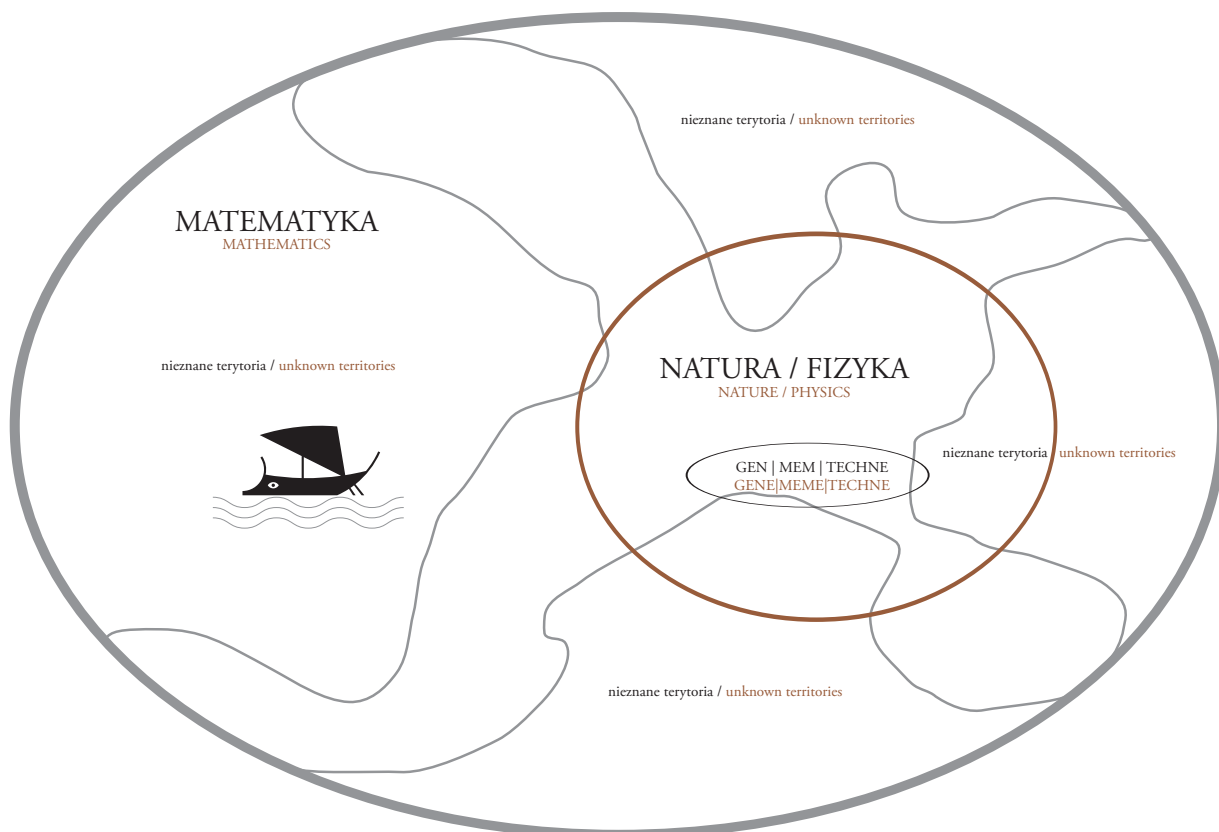


The idea that initiated Medea symposia 10 years ago was the concept of transvergence introduced by Marcos Novak, who was a guest of the first edition in 2011:

While convergence and divergence contain the hidden assumption that the true, in either a cultural or an objective sense, is a continuous landmass, transvergence recognizes true statements to be islands in an alien archipelago, sometimes only accessible by leaps, flights, and voyages on vessels of artifice.

Marcos Novak, *Speciation, Transvergence, Allogenesis: Notes on the Production of the Alien*

By moving on the ocean of information in the mathematical universe we are in the situation of explorers, who were sailing out on the sea and discovering new lands.



Ninth International Interdisciplinary Symposium on Art, Science and Technology

MEDEA 2021 Mutations

The 17th Conference on Functional and Nanostructured Materials

FNMA'21

Sixth International Symposium on Legal Implications of Cyber Society

ISLICS 2021

Sixth International Symposium on Physics, Technology and Art

PTA 2021

Fifth International Symposium on Information Tools in Management

ITM 2021

Interactive Art Exhibition

EX MACHINA 3

Electronic Art Exhibition

SYNTOPIA 2021

Art Exhibition

SYNTHESIS 2021 Happy Accidents

Exhibition

Project Suitcase

Graphic Art Exhibition

KAFKA. Words and Faces.

Exhibition of spatial objects

Active Causative Principles

Exhibition

Mythations - Personality of the Space

Exhibition

MEDEA 2021 Mutations

Venues:

Center of Science and Technology NOESIS, Thessaloniki

Hotel Rea, Paralia Katerinis

Timeline:

September 4 -11 2021

Organizers:

Academy of Art in Szczecin

Association for Support of Science, Art and Technology Development MEDEA

Co-organizers:

Athens Digital Arts Festival, Greece

Faculty of Applied Physics and Mathematics, Gdańsk University of Technology, Poland

Faculty of Architecture, Poznań University of Technology

Faculty of Architecture, Silesian University of Technology, Poland

Faculty of Economics and Management, University of Szczecin, Poland

Faculty of Interior Design and Stage Design, University of Arts in Poznań, Poland

Faculty of Law and Administration, University of Zielona Góra, Poland

Faculty of Physics, University of Athens, Greece

Fine Arts Department, Aristotle University of Thessaloniki

Institute of Informatics, Technical University of Łódź

Institute of Molecular Physics, Polish Academy of Sciences in Poznań, Poland

International Legal Communication Research Center, University of Warsaw, Poland

Institute of Physics, Faculty of Mechanical Engineering and Mechatronics, West Pomeranian University of Technology, Poland

Mediations Biennale in Poznań, Poland

Poznan University of Social Sciences, Poland

TASK Computer Center, Gdańsk University of Technology

The Strzemiński Academy of Art in Łódź, Poland

Thessaloniki Science Center & Technology Museum NOESIS

Cooperation:

Polish Physical Society, Branch in Gdańsk

Pomeranian - Greater Poland Nanotechnology Forum

Sojo University, Kumamoto, Japan

Uptown Koenji Gallery, Tokyo, Japan

Honorary Chairmen:

Mirosława Jarmołowicz
(Rector of the Academy of Art in Szczecin, Poland)
George Papadopoulos
(Physics Department, University of Athens, Greece)

Scientific Committee:

Yoshihiko Asai (Japan)
Andrzej Banachowicz (Poznań, Poland)
Natalia Bąba-Ciosek (Gliwice, Poland)
Giannis Belibasakis (Thessaloniki, Greece)
Zygmunt Drązek (Szczecin, Poland)
Niko Guskos (Szczecin, Poland)
Józef Jurek (Szczecin, Poland)
Wojciech Kempniński (Poznań, Poland)
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Arkadiusz Marcinkowski (Szczecin, Poland)
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Urszula Narkiewicz (Szczecin, Poland)
Mirosław Pawłowski (Rzeszów, Poland)
Jarosław Rybicki (Gdańsk, Poland)
Yasuyuki Saegusa (Japan)
Katarzyna Słuchocka (Poznań, Poland)
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Joanna Osiejewicz (Warsaw, Poland)
Jakub Palka (Szczecin, Poland)
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Department of Fine Arts

Nikodem Pręgowski

**POLISH-JAPANESE ACADEMY OF INFORMATION
TECHNOLOGY**

Agnieszka Ziemiszewska

Important deadlines:

Registration: July 5 2021

Abstract proposal (up to one A4 page): July 5 2021

Abstract proposal acceptance: July 10 2021

Conference fee, early payment: July 15 2021

Conference fee, late payment (higher): August 10 2021

20 min video presentation submission (for remote participants): August 15 2021

Full paper submission (ca. ½ publishing sheet): November 1 2021

Full paper acceptance: December 1 2021

Registration:

In order to register please download and fill the registration form available at www.medea2021.pl and send it by email to: andreas.guskos@akademiasztuki.eu

Abstract proposal:

Please submit the abstract proposal by email to: andreas.guskos@akademiasztuki.eu

Conference fee:

Before July 15 2021:

575 € / 2650 PLN – Regular fee

375 € / 1730 PLN – Student fee

300 € / 1380 PLN – Remote participation fee

After July 15 2021:

675 € / 3110 PLN – Regular fee

475 € / 2190 PLN – Student fee

375 € / 1730 PLN – Remote participation fee

150 € / 690 PLN – Full paper submission only (for non-participants).

Regular fee includes: local conference costs, cost of conference materials, hotel room between 4-11.09.2021 (7 nights).

Student fee includes: local conference costs, cost of conference materials, accomodation in double/triple/quadruple room between 4-11.09.2021 (7 nights).

Remote participation fee includes: cost of conference materials. Remote participation does not include accommodation.

Payment:

Payment should be done by wire transfer to the organizer's bank account:

Account no: PL64 1240 3826 1111 0010 7296 5840

BIC|SWIFT: PKOPPLPW

Description: MEDEA 2021 Name and Surname

Account holder: Stowarzyszenie Wspierania Rozwoju Nauki, Sztuki i Technologii MEDEA, ul. Kręta 36/9, 71-052 Szczecin

Please send the receipt of payment by email to: andreas.guskos@akademiasztuki.eu

Macedonia

Macedonia is the biggest in area and second in population size geographical region of Greece (34 178 km² / 2 487 447 inhabitants). The capital of Macedonia is Thessaloniki, the second largest city in Greece (315 196 inhabitants). Here are located: the Mount Olympus, the highest mountain range in Greece (highest peak, Mitikas, 2918 m.a.s.l.) and the Holy Mountain Athos (Άγιον Όρος), an autonomous region inhabited by orthodox monks.

Macedonia was an ancient Greek kingdom established and ruled for most of the time by the Argead dynasty, from which also Alexander the Great came. Argeads derived their origin from Temenides of Argos in Peloponnese, so also from Hercules (Heraklides), of whom according to mythology Temenos was the great-great-grandson. Theopompous mentions the mythical Karanos, one of the sons of Temenos, as a progenitor of the Argead dynasty, who after the death of his father and lost struggle for succession decided to search for another location for his kingdom and with this aim went to the Oracle of Delphi, where he received a prophecy from Pythia that he should go to the lands of Bottiaean abounding in flocks and found a city where he will see goats white as a snow with star shining horns, which are sleeping in a deep sleep (gr. Αίγα, aiga – goat). Karanos in a place that he has found according to the prophecy founded a city, which he named Aigai (Αιγαί) – today's Vergina, where an archeological site and a complex of Macedonian royal tombs are located.

Also the Aegean Sea took its name from goats that were associated with the white foamed peaks of waves on a disturbed sea (gr. Αιγεύς + πέλαγος). Greek geographer and traveler Strabon derives also the name of Egypt from the same source - Αιγαίο + υπτίως – below (south from) the Aegean Sea. A holy goat was feeding Zeus in his infancy when he was hiding from the pedofagus Kronos. The shield of Zeus – aegis – was made from goat's skin and this is the source of the phrase “under the aegis” and in Greek also the root of the word storm (καταιγίδα), which according to mythology was caused by Zeus who was shaking his shield in anger.

The biggest blossoming of Macedonia occurs in the times of Philip II and his son Alexander the Great, disciple of Aristotle, whose conquests initiated Hellenistic Era in history.

The biggest scientific facility and two biggest libraries of ancient times emerged within the boundaries of Hellenistic states: the Museum and Library of Alexandria and the Library of Pergamon. Alexandria was erected by Alexander the Great with the help of architect Deinochares in 332 B.C. in the place of an older town Rhakotis (dated 2686 BC). The Museum of Alexandria, which included the famous Alexandrian Library, was erected by Ptolemy I Soter, Alexander's general and founder of the Ptolemy dynasty. He was inspired in his actions by Demetrius of Phalerum, disciple of Aristotle. The first superintendent of the library was Zenodotus from Ephesus, who first started the classification of the collection, by separating text associated with epics and lyrics. The collection was significantly enriched by Ptolemy II Philadelphus, who deployed his representatives all around the Mediterranean with a mission of searching for scrolls and acquiring them. Furthermore, anyone who stayed in Alexandria and was in possession of scrolls was obliged to deposit them in the library, where they were copied and the owner received back the copy. Also the ships in the harbor were inspected in search for books. The Museum of Alexandria was a scientific and research complex, which included amongst others the Library, an astronomical observatory, places for meetings, studies, residencies for scientists, lecture rooms, a zoological garden. According to different sources the collection of the library included from 400 000 to 700 000 volumines, which ranked it as the greatest library of the world (Pergamon Library was the second one). The complex included a scientific library – the Brucheum, part of the Museum, where most of the books were stored and a public library – the Serapeum with a collection of 42 000 scrolls.

Some of the scholars resided in the Alexandrian Museum, example research and inventions:

Euclid, c. 365 BC – 300 BC. Basics of geometry, mathematics and mathematical logic.

Herophilos of Chalcedon, 335 BC – 280 BC. Medicine (named “the father of anatomy”)

Aristarchus of Samos, 310 BC – 230 BC. Astronomy. First proofs of a heliocentric nature of the Solar System

Callimachus of Cyrene, c. 310 BC – 240 BC. Probably the second superintendent of the library. Poetry, first history of literature. Classification of the collection according to sections: philosophy, history, medicine, mathematical sciences, natural sciences, law, epos and poetry, drama, rhetoric, others. Authors placement in each section in alphabetical order.

Erasistratus of Keos, 304 BC – 257 BC. Medicine (named “the father of physiology”). Co-founder of the medical school in the Museum.

Archimedes, 287 BC – 212 BC. Mathematics, physics, mechanics. Archimedes’ principle, Archimedes’ screw, lever, π number, integral methods for calculating volume and area.

Ctesibius of Alexandria, 285 BC - 228 BC. Mechanics. Valves, piston pump, springs, water clock, pneumatic canon, water organs (hydraulis).

Philo of Byzantium, born 280 BC. Mathematics, mechanics. Thermometer, catapult.

Eratosthenes of Cyrene, 276 BC – 194 BC. Third superintendent of the library. Philosophy, mathematics, astronomy, geography. Proof of the sphericity of Earth, measurement of the diameter of Earth.

Apollonius of Perga, c. 268 BC – 190 BC. Geometry and astronomy. Solution of the Delian problem, first solar clock.

Hipparchus of Nicaea, c. 190 BC – 120 BC. Mathematics, astronomy, geography. Determining the distance of the Moon from Earth, Determining the time of the Earth circulation around the Sun, defining the latitude and longitude.

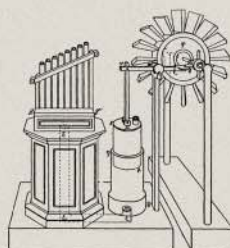
Hero of Alexandria, c. 10 AD – 70 AD. Principal of the Higher Technical School (first university of technology) in Alexandria. Mathematics, physics, mechanics. Formula on a triangle field, steam turbine, siege machines.

Menelaus of Alexandria, c. 70 AD – 140 AD. Astronomy, mathematics. Spherical geometry.

Claudius Ptolemy, c. 100 AD – 168 AD. Astronomy, mathematics, geography. „Almagest” - geocentric theory.

Galen of Pergamon, 130 AD – 200 AD. Medicine.

W. Schmidt, Modern reconstruction of Heron of Alexandria organ (1st century AD), 1899.



There is an ancient hydraulis exposed in the Archeological Museum of Dion – a musical instrument invented by Ctesibius of Alexandria.



M E D E A

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