

## A European Cultural Heritage of Inestimable Value

ECHOPHYSICS undertakes to set forth the European history of physics: through exhibitions of historically valuable physical instruments; through documentations, biographies and scientific relics; through didactic replications of crucial physical experimental setups—the cultural heritage of the European physics should not remain reduced to a mere spreading of scientific data throughout the globe.

ECHOPHYSICS—the naming is derived from *European Centre for the History of Physics* and refers to Echo, the mountain nymph of Greek mythology, who repeats what others had expressed before. Thus, ECHOPHYSICS stands for our responsibility to evoke all what once had inspired the European physicists to achieve their ideas and discoveries.

### Yesterday is Not Born Yet

ECHOPHYSICS aims at bringing the history of their discipline to the conscious mind of the physicists. If this is true that acceleration—being culturally and structurally engraved into our modern times—causes a progressive contraction of the present, not only the future but also the past will increasingly be forthcoming. A primordial mission of the today physicists is to concede continuity to the different epochs of 'their' history of physics and to re-situate 'temporality' in the context of human life.

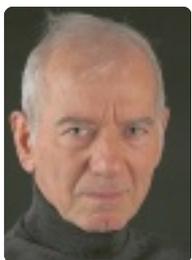


Photo © 2010: [www.technographic.at](http://www.technographic.at)  
Dir. Dr. P. M. Schuster

ECHOPHYSICS presents, Oct.–Nov. 2011:

## The Antikythera Mechanism—the Earliest Known Computing System

In 1900, Greek sponge divers discovered at the 40 m deep bottom of the sea between Crete and Kythera an ancient merchant shipwreck, dated about 80 BC. Among its cargo, much



of which arises from earlier times, is found a collection of fragments from a mysterious assembly of gears, dials and inscriptions. Studied by mathematicians, astronomers and astrophysicists, analyzed by X- and gamma-rays, the mechanism reveals to be of higher a complexity than any sophisticated device created during the following 1000 years.

It appears that the Antikythera mechanism has been an astronomical and calendrical computer, achieved about 1500 years before the invention of the mechanical clockwork. The origin and creator of the ingenious mechanism remain an archeological riddle, furthermore since the latest research proposes that the it might be the earliest known model of a calculated universe based on Babylonian knowledge.

This exhibition is co-organized by the project HEPHAESTUS (EE., FP7, Capacities, Reg-Pot1-2008)



## Address & Opening Times

Schloss Poellau, Exhibition Halls,  
Schloss 1, 8225 Poellau near Hartberg in Steiermark, Austria

May 8 to November 27

Thursday to Sunday, from 10:00 a.m. to 5:00 p.m.

Special booking can be arranged.

## Ticket Rates

|                          |             |
|--------------------------|-------------|
| Adult                    | € 4,00      |
| Child/Student            | € 1,50/3,00 |
| Special Rates for Groups |             |

## Organizers of the Exhibition

Initiated and directed by: Dr. Peter Maria Schuster

ECHOPHYSICS—European Centre for the History of Physics

[www.echophysics.org](http://www.echophysics.org)

Victor Franz Hess Society [www.victorfhess.org](http://www.victorfhess.org)

European Physical Society/History of Physics Group [www.eps.org](http://www.eps.org)

Graphics and design by: Arthur G. P. Schuster

## Booking

Tourismusverband Naturpark Poellauer Tal

Schloss 1, 8225 Poellau b. Hartberg, Austria

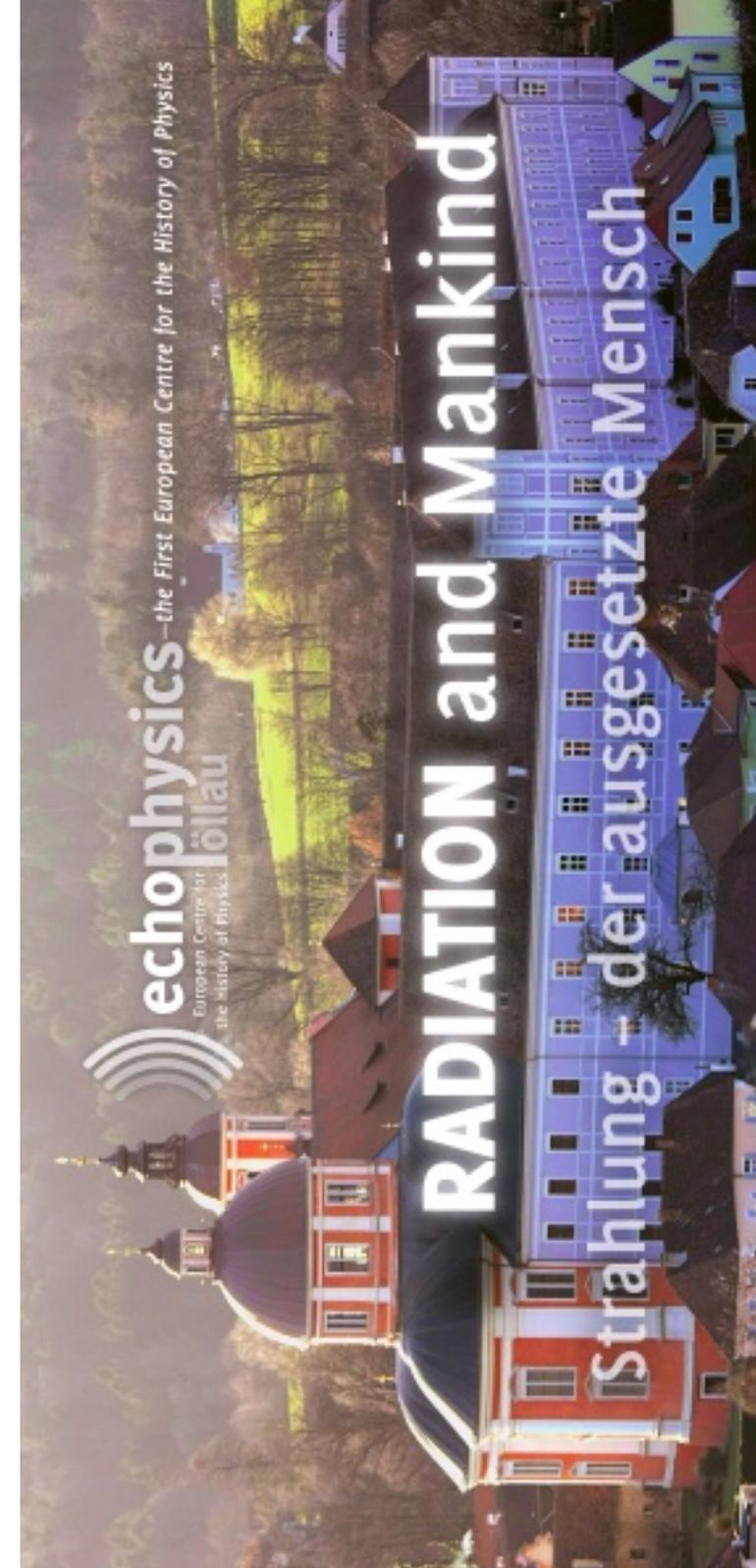
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[www.naturpark-poellauertal.at](http://www.naturpark-poellauertal.at)

ECHOPHYSICS Exhibition Hall: Call +43 (0)33 35 / 2433





Hess



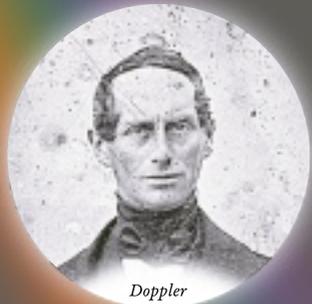
Loschmidt



Boltzmann



Stefan



Doppler

ECHOPHYSICS—we show the great minds of European physics and their instruments to retrace our knowledge about radiation

ECHOPHYSICS—following the history of physics we retrace the constant evolution which cause, explanation and application of the natural phenomenon of radiation have undergone

### *Radiation is a Journey Through Time*

Radiation describes the history of our universe, from the beginning to an—uncertain—ending. All that we know of our world, of space and time, has come to us through radiation.

### *Radiation Is Our Life*

Radiation is nature in its most mysterious manifestation, the forceful factor that has determined and continues to determine the development of man and his culture and civilization: not only has radiation made possible the many innovative technologies which we take benefit of, moreover, radiation directly affects the evolving of every form of life on Earth.

ECHOPHYSICS—Europe has history of physics, and we make history of physics

