

Exhibition Credits:

Science Committee/Exhibition development team

- Evangelos Vitoratos, Professor, Department of Physics, Direct at S.T.M.
- Kordulis Christos, Professor, Department of Chemistry, Dean of the Faculty of Natural Sciences
- Zelliidis Abraham, Professor, Former Dean of the Faculty of Natural Sciences and performing debts of Director at S.T.M. up to 31/8/2010
- Theodoros Deligainnis, Emeritus Professor, Department of Physics, Team Coordinator
- Christopher Krontiras, Professor, Chairman, Department of Physics
- Stavros Kotsopoulos, Professor, Department of Electrical and Computer Engineering
- Dimitris Lymberopoulos, Professor, Department of Electrical and Computer Engineering

Exhibition Design and Curator

- Peny Theologi-Gouti, Architect-Ethnologist, S.T.M.

Research and Material Collection

- Peny Theologi-Gouti, Architect-Ethnologist, S.T.M.
- Athena Pilarinos, Electrical Engineer, S.T.M.

Design and Construction of Experiments

- Theodoros Deligiannis, Emeritus Professor, Department of Physics
- Evangelos Vitoratos, Professor, Department of Physics
- Spyros Koutsouvelis, Department of Physics
- Giannis Stais, Physicist
- Students of the Department of Physics

Presentation of experiments

Made possible with the support of volunteer students from the Department of Physics

Study and Coordination of Installation and Activation of the Telephone Exchange ATZ-65 model

- Costas Bourdoulis, Former Technical Staff and Instructor of OTE, Hellenic Telecommunications Organisation, Leader in charge

Installation and Activation of Telephone Exchange ATZ-65

- Costas Kaipanos, Former Technical Staff of OTE
 - Andreas Economopoulos, Former Technical Staff of OTE
 - Leferis Raptis, Former Technical Staff of OTE
- With the support of Former and Current OTE Staff members.

Implementation of Interactive Exhibit for the History of Telecommunications

- Nikolaos Avouris, Professor, Department of Electrical and Computer Engineering (ECE)
- Peny Theologi-Gouti, Architect-Ethnologist, S.T.M.
- Vasilis Vlahokyriakos, student

Development of other interactive applications

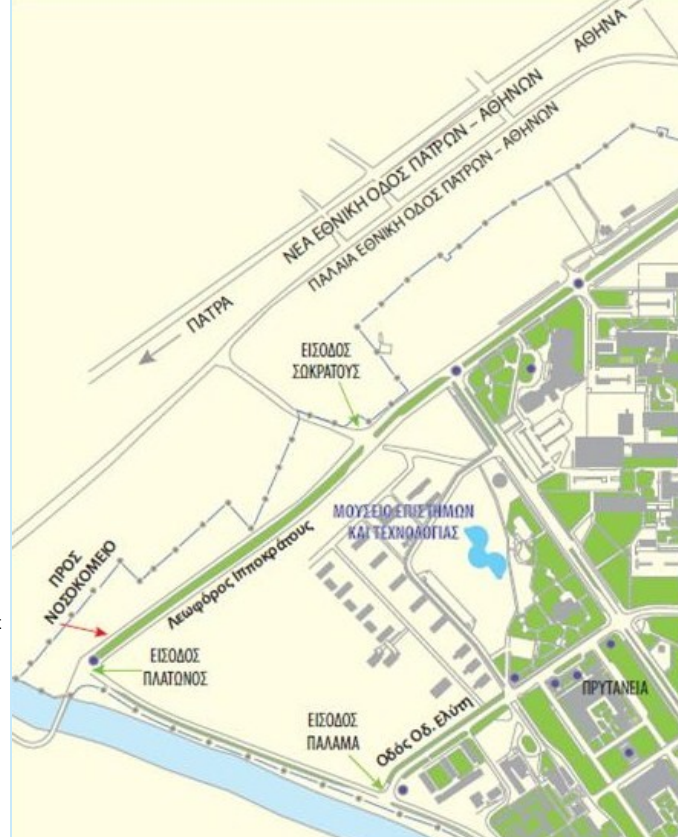
- Dimitrios K. Tsolis, Computer Engineer, MSc, PhD, Department of Computer Engineering and Informatics
- Students of CEID

Donors of Museum Objects

- Members of the Academic Community and private individuals
- OTE Museum of Telecommunications
- Regional Directorate of OTE S.A.-The Hellenic Telecommunications Organisation, Telecommunications region of Southern and Western Greece
- European Space Agency
- Hellenic Army General Staff 3rd Battalion of War Materials
- OSE Hellenic Railways Organization, National Administrator of Railway Infrastructure, Production Management
- Wind Hellas
- Vodafone-Panafon S.A.
- Greek Safer Internet Awareness Centre, *Saferinternet.gr*

Sponsors

- Vodafone-Panafon S.A.
- COSMOT Mobile Telecommunications S.A.
- INTRACOM-TELECOM
- OTE S.A.-Telecommunications Region of Southern and Western Greece



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Ιστοσελίδα: www.stmuseum.upatras.gr

<http://www.facebook.com/pages/Museum-of-Science-and-Technology/109823479058588>

Instagram: [The_museum_stm](#)

Twitter: [STMuseum_UP](#)

Hours of operation: 9.00 - 14.00

From Monday to Friday except major holidays.

Groups visits and educational programs by appointment only.



EXHIBITION

‘Telecommunications in our life’



MUSEUM OF SCIENCE AND TECHNOLOGY
UNIVERSITY OF PATRAS

'Museum of Science and Technology, University of Patras'

The Museum of Science and Technology (S.T.M.) was established in 2001, as a Laboratory of the University of Patras; School of Natural Sciences.

The main goal of S.T.M. is to spread science on as many levels as possible, becoming an important educational tool.

'Telecommunications in our life'

The S.T.M.'s current thematic exhibition is titled '**Telecommunications in our life**', which shows the characteristics of telecommunications and their development in **3 thematic sections**:

1. Historical development of Telecommunications, which includes:

- ♦ **Video Projection 'from Beacon-signals to the Internet'**
- ♦ **Ancient Telecommunications**
- ♦ **Timetable of Telecommunications** from the mid 17th century up to today
- ♦ **Video projection, scenes** from Greek and foreign films, showing the use of the telephone
- ♦ **Interactive Application concerning the History of**



2. Basic Physics, principles which formed the basis for the development of telecommunications, including demonstrations of experiments on topics listed below:

♦ **Electromagnetics**

- ♦ Experiments on Induction,
- ♦ Oersted Experiment,
- ♦ Diversion of an electron beam using a magnet,
- ♦ Diversion of a current carrying conductor by means of a magnetic field.



♦ **Waves - Optics**

- ♦ Creation of waves in a water tank,
- ♦ Laser Optics: Reflection-Refraction,
- ♦ Oscillation of Synthesis: Lissajous Figures, Beats, Amplitude and Frequency Modulation,
- ♦ A Short Range Optical Communication System,
- ♦ Digital Logic Gates.



3. Telecommunications past and modern.

which includes object, photographic and audiovisual collections, interactive exhibits and information on:

- ♦ **Wired Telephony,**
- ♦ **Wireless Telephony,**
- ♦ **Satellite Communications,**
- ♦ **Modern Communications Services and Presentation of a Prototype Educational Device offered to visitors,**
- ♦ **Different types of Telephone Exchange Units,**

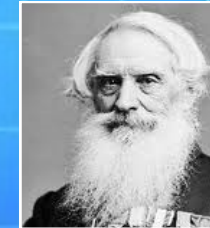
and a demonstration of the operation of the Telephone Exchange ATZ-65 model.



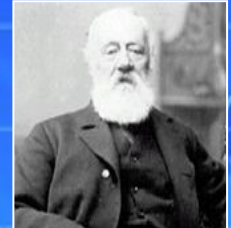
ROBERT HOOKE



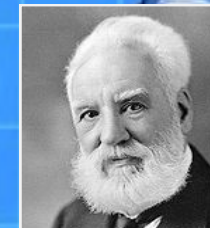
ELISHA GRAY



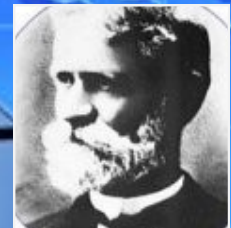
SAMUEL MORSE



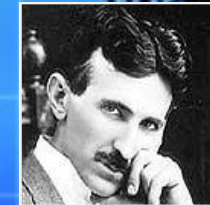
ANTONIO MEUCCI



ALEXANDER GRAHAM BELL



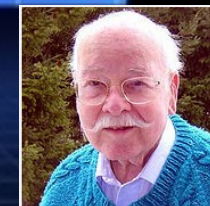
ALMON STRAWGER



NIKOLA TESLA



HEINRICH HERTZ



WILLIAM RAE YOUNG



MARTIN COOPER