

ARTURO MALIGNANI

PROFILE: THE MAN AND THE SCIENTIST



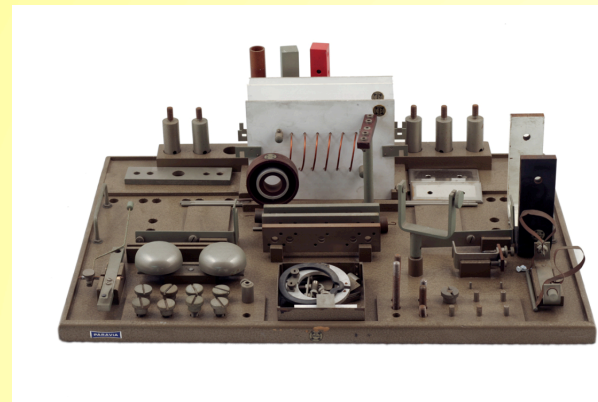
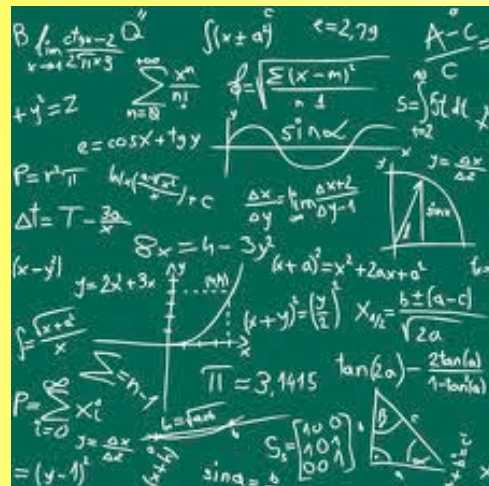
Arturo Malignani
(1865-1939)

ORIGIN AND PERSONALITY

Arturo Malignani was born in Udine on 4th March 1865. He was brought up by his sister Adele, who intuitively guessed his great intelligence and fondly supported his scientific talents and his entrepreneurial spirit.

SCHOOL AND INTERESTS

After completing his high school studies in maths and physics, Malignani devoted his versatile mind to manifold scientific research and experiments that could be of help to mankind: in fact, he firmly believed the observation of natural phenomena made sense only if used to promote social progress.



MAIN ACHIEVEMENTS

Arturo Malignani set up a lab next to his house in the centre of Udine. He studied systematically the weather to protect the agricultural crops from natural calamities such as ice. He conceived new manufacturing techniques to quicken the process and increase the quality of cement.



MAJOR INVENTION

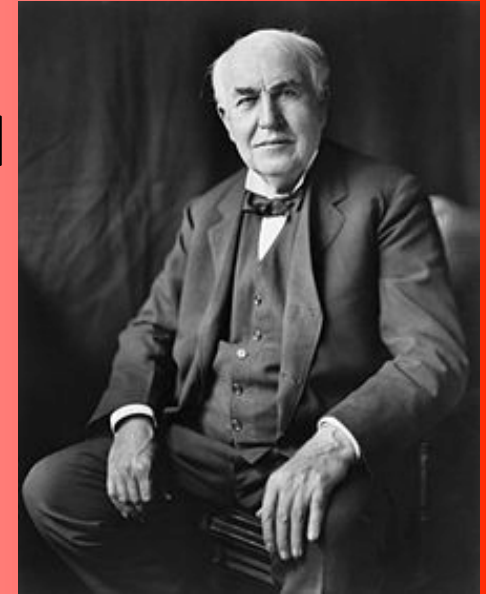
His major invention was the industrial method to obtain the vacuum, which soon replaced the mercury pump by Sprengel. The result of such discovery was extraordinary as the average lamp life grew substantially making production costs and selling prices drop sharply.



Lampadine 'Malignani' con attacco a vite

CONSEQUENCES

Edison bought his patent (1896) and adopted it extensively in his US lamp manufacturing industry.



About 40 years later (1834), John Howell, top manager of the General Electric (US), praised Malignani's invention.



UDINE

In 1888 the town council of Udine commissioned to Malignani the replacement of the old public gas lighting with the modern electric one. To serve this purpose , he planned a small carbon-fed thermoelectric plant and Udine became one of the first towns in the world lit with electricity.



END OF A GREAT MAN

Arturo Malignani died in Udine on 15th February 1939. We should all be grateful to such a modest and honourable man, who put his genius at the service of the community, researching and experimenting with great passion and methodical approach.



PROFILE

ORIGIN AND PERSONALITY

- born in Udine, March 4, 1865;
- son of a Friulan painter and photographer;
- brought up by his sister Adele;
- great intelligence, scientific talents, entrepreneurial spirit.

SCHOOL AND INTERESTS

- studies in maths and physics;
- scientific research and experiments;
- attention to natural phenomena.

MAIN ACHIEVEMENTS

- weather observation to protect agriculture;
- higher quality cement.

MAJOR INVENTION

-the industrial method to obtain the vacuum replacement of the mercury pump by Sprengel a mix of phosphorous and arsenic vapours to stabilize the vacuum exponential increase of lamp life.

CONSEQUENCES

- Edison bought Malignani's patent (1896) and used it in his US lamp factories to make better lamps at lower costs;
- John Howell/General Electric US (1834) praised Malignani's invention.

UDINE

- one of the first town in the world lit with electricity;
- electrical tram network.

END OF A GREAT MAN

- died in Udine, February 15, 1939;
- a modest and honourable citizen;
- a generous, passionate, methodical researcher and inventor.

GROUP MEMBERS

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