



SAPIENTIA
ERDÉLYI MAGYAR
TUDOMÁNYEGYETEM
MŰSZAKI ÉS HUMÁNTUDOMÁNYOK KAR

SC PLASMATERM SA

Targu Mures, Romania



Dr. Zoltán Kolozsváry

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SC Plasmaterm SA, was registered under this name as a private company in 1993, continuing the experience of almost three decades of its predecessor, a research institute in the field of precision investment casting and surface engineering.

Plasmaterm is a joint stock company owned originally by its employees. At present the majority shareholder is the Nathan Sales of New York, as result of successive capital investments. The rest of shares are property of the management and employees



Plasmaterm is located in the city of Tîrgu Mures , connected to the world by its international airport and the E60 road. The East- West motorway will cross the North-South one at 10 km. from the city



Marosvásárhely (Tîrgu Mures, Neumarkt am Miresch) is in the heart of Transylvaniathe city of Bolyai.. ..a city with strong traditions for science and development.....

“Plasmaterm SA “ with 140 employees is a non-typical SME following the tradition of a previous research institute established in 1965-1973



The activity profile:

- **precision investment casting in a niche-market for short to middle series of highly sophisticated castings**
- **plasma surface engineering covering nitriding/nitrocarburizing**
- **R&D activities in the related field**
- **testing materials**
- **development and production systems and components for high-tech locks for the US market covered by the SGI partner in New York**



This is Plasmaterm SA...as of today...



.. but up to this point we needed a hard work, perseverance .. and a bit of good luck, ..





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Company structure and employees

Main departments :

P1 standard operations:

foundry, heat treatment/surface engineering, materials testing.

P2 assembling high-tech security locks (American partner company *Securitech Group Inc. in New York.*)

Number of employees :

133 of which 33 with university degree

Foundry: 47 (6 with university degree)

Plasma processing: 4 (2 with university degree)

Testing materials: 5 (all with university degree)

Technical: technology, design for tooling etc.: 8 (6 with university degree)

Machining/ Tooling: 12

Transport, auxiliary: 12 (1 with university degree)

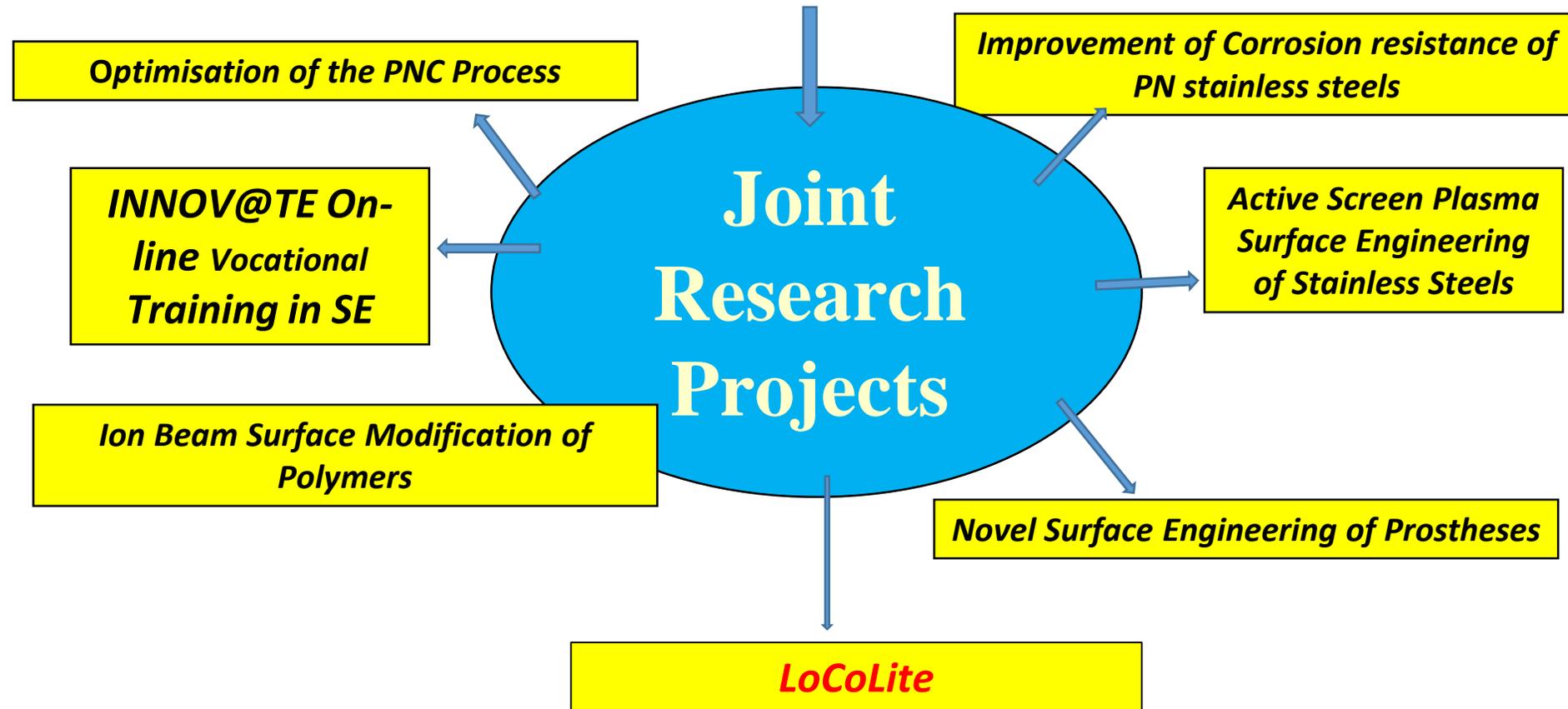
Maintenance :7 (2 with university degree)

Securitech operations: 29 (5 with university degree)

Administration: 7 (2 with university degree)

Management: 4 (all with university degree)

In the period of 1994- 2015 Plasmaterm was coordinator or partner in many EU funded research and development projects and a number of joint research and development works in the field of surface engineering in international cooperation



Partners in collaboration:

- The University of Birmingham (UK)
- Imperial College London
- AdSurfEng (UK)
- MicroMaterials (UK)
- University of Clausthal (D)
- University of Malta
- Miskolc University (HU)
- Hungarian Academy of Sciences (Szervetlenkémiai Intezet)
- Sapientia University Tg.Mures
- ... and many others....





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Zoltán Kolozsváry

Born: 28/04/1937, Targu Mures, Marosvásárhely

Address: 54o39o Targu Mures, Avram Iancu 3o

e-mail: zoltan.kolozsvary@plasmaterm.ro

Qualification: INSTITUTUL POLITEHNIC Bucuresti, 1959 (mechanical eng.)

PhD 1971,

1959-1976:

I.Metalotehnica,(Matricon) Tg-Mureş – Head of R&D division

1976-1993:

Scientific Director CCSITMIU Bucureşti – (seat in Tg.Mures)

1994 -

Managing Director , President of the Board, SC. Plasmaterm S.A.

1998-2000

President of the International Federation for Heat Treatment and Surface Engineering with its seat in London UK

1996-2015

Permanent Member of the EC of IFHTSE

1976-

Associated Professor at “Petru Maior” University Tg.Mures, from 1996 at the” Sapientia” University

1992-2012

Elected member of the City Council in Tg.Mures, head of Budget and Finance Committee

- More than 200 scientific publication in 8 languages, 14 patents
- Awards and distinctions: Order of Scientific Merits 1973, Cavalier of the Order of “Steaua Romaniei” 2000, “Alae – Wings” award for scientific activity
- Fellow of the International Federation for Heat Treatment and Surface Engineering 2008, Doctor Honoris Causa Miskolc University 2012, Honorary Member of the Romanian Academy of Tehnical Sciences, Honorary member of Hungarian Academy of Engineering, Honorary member of the Russian Society for Metalurgy, member of the Materials Science group of the Hungarian Academy of Sciences

Wife: Judith, retired professor of English and French languages, no children