

Europass Curriculum Vitae



Personal information

Name Address Telephone Fax/ E-mail Nationality Date of birth	Kappel Wilhelm 11,Valea Argesului, Bucarest, 0744 548 939 +40-21-346 72 35 / kappel@icpe-ca.ro Romania 17, june,1946
Desired employment / occupational field	Project Partner Manager
Work Experience	
 Dates (from – to) Name and address of employer Type of business or sector Occupation or position held Main activities and responsibilities Education and training 	1969-present at ICPE Bucharest (National Institute for Research and Development for Electrical Engineering ICPE – Advanced Research): researcher (1972), senior researcher III (1980), senior researcher II (1990), senior researcher I (1994) 1987-1990 head of the group of magnetic materials. 1990–1993, head of the department for inorganic electrotechnical materials. 1994-1998 ICPE Scientific Manager and Scientific Secretary of the Institute, 1998-2001 - Director of the Advanced Research Division, in present General Director of the institute. Professor at University "Politehnica" of Bucharest from 1996 Professor at University "Valahia" of Targoviste from 1999 R&D National Institute for Electrical Engineering ICPE-Advanced Research (INCDIE ICPE-CA), 313 Splaiul Unirii, Bucharest - 3, RO 030138 R&D General Director R&D, management
• Dates (from to)	1065 1060 University of Rucharost, Faculty of Dhysics, Department for Solid

• Dates (from – to)	1965-1969 University of Bucharest, Faculty of Physics, Department for Solid State Physics, thesis "Magnetic properties of diluted alloys measured by neutron scattering".
	1999 Babes-Bolyai University from Cluj-Napoca, Faculty of Physics, Ph. D.
	Thesis "Study of the magnetic behaviour of some rare-earths based ternary compounds"
 Name and type of 	February-April 1987, specialisation in rare earth permanent magnets at the
organization providing	University of Birmingham-UK;
education and training	25 August-2 September 1999, French-Romanian Summer School "High performances permanent magnets", Cluj-Napoca, Romania
 Principal 	1969-present at ICPE Bucharest (R&D National Institute for Electrical
subjects/occupational skills covered	Engineering ICPE – Advanced Research): researcher (1972), senior researcher III (1980), senior researcher II (1990), senior researcher I (1994)

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	1987-1990 head of the group of magnetic materials. 1990–1993, head of the department for inorganic electrotechnical materials. 1994-1998 ICPE Scientific Manager and Scientific Secretary of the Institute, 1998-2001 - Director of the Advanced Research Division, in present General Director of the institute. Professor at University "Politehnica" of Bucharest from 1996 Professor at University "Valahia" of Targoviste from 1999
	Study of magnetic properties of the AI-Ni-Co-Fe alloys, isotropic and anisotropic high energy and high Ti-containing Alnico alloys and establishment of their manufacturing technologies. These technologies were applied in our own small-scale manufacturing unit and at two industrial manufactures. Beside of a number of technology reports, the results of my activity were scientific papers, communications and more than 10 patents regarding different technological steps (moulding, casting, heat treatments) and applications of Alnico permanent magnets; Study of magnetic properties of rare earth based permanent magnets: Sm-Co and NdFeB permanent magnets, obtained by sintering, bonding and injection. The results (manufacturing technologies) were applied in the Institute and in one industrial manufacturing unit. Also, many works regarding the recovery of magnetic alloy waste in order to be reused in the magnet technology; Characterization of hard and soft magnetic materials: establishment of measuring methods used in current industrial quality control, design of the appropriate devices, establishment of national standards in magnetics; Study of Cu-AI-Ni compounds for shape memory alloys, magnetic soft Fe-Ni alloys, hard magnetic alloys like Fe-Cr-Co, Mn-Bi, Mn-AI-C, Mn-AI; Study of the possibilities to reduce the total power losses in electrical steel sheets, by local stresses: it was established a method to reduce the power losses of grain oriented Fe-Si electrical steel sheets by electron beam irradiation, also design and building of a single sheet testing device for such sheets; Experience in permanent magnet manufacturing technologies: cast, sintered and bonded for Alnico and rare earths-transition metals permanent magnets; Participation in bilateral scientific cooperation with institutes from Russia (Institute for High Pression in mechanical cold worked Mn-AI permanent magnets, Institute for Iron and Steel in the field of NdFeB permanent magnets), China (Academia Sinica: Physic Institute–Beijing, Institute for Metal
 Title of qualification awarded Level in national classification 	Profesor, Ph.D Senior researcher
Personal skills& competences	
Mother tongue Other languages • Reading skills • Writing skills • Verbal skills	german romanian, excellent, english-good, french-good, russian-basic romanian, excellent, english-good, french-good, russian-basic romanian, excellent, english-good, french-basic, russian-basic
Social skills and competences Living and working with other people, in multicultural environments, in	Fellow of the IEEE Magnetics from 1990 Vicepresident of Romanian Society of Magnetic Materials (1992), affilied to UKMagn.Soc. (1993) Vicepresident of the Romanian Association of Materials, since 1998

positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.	President of the Romanian Technical Committee 68 for Steels and Magnetic Materials, belonging to the Romanian Electrical Committee, member of the IEC. Member in the Committee for "Advanced Materials and Materials Recycling" (1995–1998) and of the Commission for Science Policy (1999), of the Consulting Council for Research, Technology and Innovation of the Ministry for Education and Research and of different evaluating panels for materials belonging to the different national scientific research programmes.
Organisational skills and competences	Management in R&D activities Over 35 projects in the national programmes: ORIZONT 2000, RELANSIN, MATNANTECH, CERES (1993 - 2008) "Temperature Stability and Corrosion Resistance of Rare Earth - Transition Metals Magnets", project INCO – COPERNICUS No. ERBIC 15 CT 96 – 0758, 1997 - 1999 "Characterisation of industrial and magnetic steel", project INCO – COPERNICUS No. ERBIC 15CT 96 – 0817, 1997 - 1999 "Neutron diffraction and SANS study of magnetic phases in nanocrystalline Fe- Cu alloys", Joint Research Work Romania – Russia, since 17.05.2005 "The diversification of magnet series produced on the NdFeB magnets common line by realization of high coercivity permanent magnets with working points > 180oC" Joint Research Work Romania – Republic of China No. 37 – 09/31.05.2004, 2004 "Strengthening of the RDI potential for advanced materials and composites to enhance the performance of the electrical industry", Project FP 6 – INDUMAT, No. 17240/2004
Technical skills&competences	Basic computer works
Artistic skills & competences	Classical music (as hobby)
Driving licence(s)	Туре В
Additional information	Medal and diploma "E. Hurmuzescu", about of the Romanian Electrotechnical Committee (1990); National order "For Merit" in the degree of Knight (2000) of the Ministry for Science, Technology and Innovation