



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) IULIAN RIȘAN
Address(es) 155 Nicolae Titulescu Street, Bloc 21, Apt. 2, Sect.1, 011137, Bucharest, Romania
Telephone(s) +4021 223 5180 **Mobile:** 0040745 371 462
Fax(es) +4021 318 1009
E-mail iulian.rișan@upb.ro; rișan@foundry.pub.ro;
Nationality Romanian
Date of birth 17.02.1948
Gender Male

Desired employment / Occupational field

University Professor / Materials Science and Engineering

Work experience

Dates 1970 - 2012
Occupation or position held Professor - 1993-present; Associate Professor - 1990-1993; Assistant Professor -1976-1990; Instructor -1970-1976
Main activities and responsibilities Materials science and engineering courses, focused on the foundry industry. Research and consulting activities in materials engineering. Head of Department - 1992-2008; Chancellor of University Senate – 2004-2016. Vice-president, CNATDCU-Materials Engineering Committee [2011- present]
Name and address of employer POLITEHNICA University of Bucharest, 313 Spl. Independentei, 060042 Bucharest, Romania
Type of business or sector High Education

Education and training

Dates 1972 - 22/12/1978
 1965 - 1970
Title of qualification awarded 2) Ph.D.
 1) Engineer
Principal subjects/occupational skills covered 2) Metallic materials processing by foundry route; Solidification; Iron melts treatments.
 1) Iron, steel and nonferrous melting and processing; Solidification basics; Metal casting processes.
Name and type of organisation providing education and training 2) Institutul Politehnic "Gh. Gheorghiu-Dej" din Bucuresti (High Education - university)
 Spl. Independentei 313, 060042 Bucuresti (Romania)
 1) Institutul Politehnic "Gh. Gheorghiu-Dej" din Bucuresti (High Education - university)
 Spl. Independentei 313, 060042 Bucuresti (Romania)

Personal skills and competences

Mother tongue(s) Romanian

Other language(s)

Self-assessment
European level ()*

English

Understanding		Speaking		Writing	
Listening		Spoken interaction		Spoken production	
B1		B1		B2	

French	B1	A2	A1	A1	A1
Russian	A1	B1	A1	A1	B1

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences	Long activities in student communities (more than 40 years in POLITEHNICA University of Bucharest, Romania). Strong activities in different Romanian metallurgical plants, especially as metal casting producers.
Organisational skills and competences	Experience in university activities: Head of Department of Materials Processing-Foundry and Metal forming (16 years), Faculty Chancellor – Materials Science and Engineering (2 years), POLITEHNICA University of Bucharest Chancellor (2004 - present).
Technical skills and competences	More than 160 technical agreements - contractual documents with Romanian cast iron foundries in order to solve many aspects of castings manufacture. Technical consulting activities in foundries: USA, France, Egypt, Korea etc. 35 Romanian Patents.
Computer skills and competences	Medium level
Driving licence	Yes, B-type

***More than 300 published papers, more than 150 in other countries [31] than Romania,** [Germany, UK, USA, France, Japan, Swiss, Spain, India, Brazil, Australia, China, Norway, Holland, Korea, Poland, Turkey, Egypt, Canada, Portugal, Czech Republic, Hungary, Russia, Bulgaria, Slovakia, Sweden, Mexico, Slovenia, Belgium, Croatia, Serbia, Argentina]

***100 papers and patents in ISI-Web of Knowledge - ISI Thomson Reuters: 65 papers in ISI-Web of Science Core Collection;**

***35 Patents** (30-Indexed in ISI-Web of Knowledge - Derwent Innovation Index).

***235 Indexed Papers: 65 ISI-Web of Science and 170 in other International Data-Bases [BDI]**

***International Data Bases Indexing of published papers:** 140-SCOPUS; 87-Metals Abstracts CSA/METADDEX; 55 - Chemical Abstracts; 28 - BCIRA (British Cast Iron Research Association) Abstracts; 32 - COMPENDEX; 15 – INSPEC, 11-AFS Library Abstracts.

***3 Technical Books:** Compacted Graphite Iron (1984), White Irons (1985) and Bainitic Irons (1989), Ed. TEHNICA, Bucharest, Romania

***Cast Irons – Textbooks** (1985, 2009, 2010)

***21 Papers have represented Romania at World Foundry Congresses / World Foundry Organization - WFO (1974 - 2012):** (Romania is a WFO member): 1974 [Belgium], 1975 [Portugal], 1976 [Romania], 1979 [Spain], 1981 [Bulgaria], 1984 [Portugal], 1985 [Australia], 1986 [Czechoslovakia], 1992 [Brazil], 1993 [Holland], 1995 [China], 1996 [USA], 1998 [Hungary], 2000 [France], 2002 [Korea], 2004 (Turkey), 2006 [UK], 2008 [India], 2010 [China], 2012 [Mexico], 2014 [Spain]

***14 Papers at the last 9 (from 10) International Symposium on Cast Irons:** 1974-Swiss, 1984-Sweden, 1989-Japan, 1994-France, 1998-USA, 2002-Spain, 2006-China; 2010-Egypt; 2014-Argentina. Member of the International Organizing Committee (1998 - present).

***35 Papers included in American Foundry Society (AFS) and Ductile Iron Society (DIS) Congresses, USA / Canada / Mexico: AFS Metalcasting Congress** [annual congresses]: 1985 [Invited Paper, CGI], 1996 [Philadelphia], 2000 [Pittsburgh], 2001 [Dallas], 2002 [Kansas City], 2003 [Milwaukee], 2004 [Rosemont], 2005 [St. Louis], 2006 [Columbus-OH], 2007 [Houston], 2008 [Atlanta], 2009 [Las Vegas], 2010 [Orlando], 2011 [Schaumburg], 2012 [Columbus-OH], 2013 [St. Louis], 2014 [Schaumburg]; 2015 [Columbus-OH]; 2016 [Minneapolis]. **Keith Millis Ductile Iron Symposium** [each 5 years]: 1998 – Hilton Head Island, SC [50 years-DI]; 2003 – Hilton Head Island, SC; 2008 – Las Vegas, NV; 2013- Nashville, TN. **AFS / DIS Specialized Conferences:** AFS International Cast Iron Inoculation Conference: 1998, 2005 [USA]; AFS International Iron Melting Conference: 2009, 2015 [USA]; The Carl Loper Cast Iron International Symposium: 2009 [USA]; AFS Conference, Saltillo, Mexico, September 2008; World Conferences on Austempered Ductile Irons: 1991, 2002 [USA]; Ductile Iron Society (DIS) Annual Meeting: 2004 [Canada]

***Cast Iron European Networking Meeting** 2009 - Paris, France; 2010 – Jonkoping, Sweden; 2011 – Clausthal, Germany; 2012 – Durango / Bilbao, Spain; 2013-Kristiansand, Norway; 2014-Nancy, France; 2015-Gent, Belgium.

***Other International Congresses: AFC – Asian Foundry Congress** 1999 [Calcutta – India], 2008 [Nagoya – Japan]; **ARABCAST** – Arabian Foundry Congress Egypt: 1997, 2000, 2004 – Alexandria, 2008, 2015– Sharm-el-Sheik; **Cupola International Conference** I. 2000 Strasbourg - France], II. 2004 [Trier - Germany]; II Vedeka Conf. s Mezinardni Ucasti, Brno, Czechoslovakia, 1978; FOCOMP'86 Intern. Conference, Krakow, Poland, 1986; 7th Intern. Ferroalloy Congress (INFACON 7); 1995 – Norway; The 1st Europ. Rolling Conference 1996, Balatonszeplak, Hungary; METAL'97, 6th Intern. Metal. Fair and Symp., Ostrava, Slovakia, 1997; 3rd ASM Intern. Conf. on The Recycling of Met., 1997, Barcelona, Spain; Intern. Conf. "Genetic Engin. in Alloys (Heredity) 1998, Samara, Russia; Intern. Conf. ADI- Conference, 2000, Krakow, Poland; 2nd Intern. Foundry Congress, March 2001, Istanbul, Turkey; 16th Hungarian Foundry Days, Lillafured, Hungary, 2001; Conf. on "DI of the 21st Century", 2003, Krakow, Poland; Casting Clinic 2006 Conference, Krakow, Poland, 2006; First Afro-Asian Conf. on Adv. Mater. Sci. Techn., 2006, Cairo, Egypt; Intern. Foundry Conf., Portoroz, Slovenia, 2011, 2012, 2015, 2016; Int. Foundrymen Conf. 2013, 2014, 2016, Opatija, Croatia; Intern. Cast Iron Symposium, Sisak, Croatia, 2013.

***TECHNICAL CONFERENCES:** USA, France, Japan, China, Egypt, Russia, India, Norway, [Universities, Research Institutes, Metalcasting Producers]

***PROFESSIONAL AND SCIENTIFIC SOCIETIES**

- Romanian Foundry Technical Association (ATTR) [President-1996-2014]
- AFS - American Foundry Society [International Member]
- European Cast Iron Group [Member]
- SRM - Romanian Society of Metallurgy [Member]
- UNIROMSIDER - Romanian Steel Producers Union [Consulting Member]
- Romanian Inventors Association [Member]

***Fulbright Research Grant-1991/1992, Ferrous Matrix Composites, Univ. of Alabama, Tuscaloosa, USA**

AWARDS

***American Foundry Society [AFS] – AWARD OF SCIENTIFIC MERIT - 2012**

"for advancing the knowledge of the cast iron industry through extensive research and for generously sharing his knowledge and expertise with the industry". "This is the highest recognition the American Foundry Society and your peers can give to the individuals who have served the industry honorably and well. In presenting this award, we are confident it will bring you the recognition you so well deserve. The spirit in which you have fulfilled AFS' mission of sharing knowledge has been one of the main considerations in making this award".

***THE BEST PAPER AWARD-63rd World Foundry Congress**, 1998, (Ductile Cast Iron and Compacted /Vermicular Graphite Cast Iron).

***THE BEST OPERATING PAPER AWARD-106th American Foundry Society Casting Congress**, USA 2002, (Compacted Graphite Cast Iron).

***THE BEST PAPER AWARD – 107th American Foundry Society Casting Congress**, USA 2003, (Iron Desulphurization)

*** "Aurel Vlaicu" Award of Romanian Academy** (1985) for Compacted Graphite Iron contributions.

***Romanian National Awards for scientific and technical creativity** in modifying iron area (1987 and 1989)

***10 Awards at Romanian National Patent Exhibitions**

***Honor Diploma of POLITEHNICA University of Bucharest for invention activity** (1988).

***"HONORARY PROFESSOR" of "Dunarea de Jos" University, Galati, Romania, 2012**

LISTA DE LUCRĂRI

Prof. Univ. Dr. Ing. Iulian RIPOSAN

A. TEZA DE DOCTORAT

Cercetari privind elaborarea fontelor cenusii cu tenacitate ridicata. Contributii la studiul fontelor cu grafit vermicular. Institutul Politehnic Bucuresti, 1978.

B. CARTI

B.a. Carti tiparite in edituri centrale

1. L. Sofroni, I. Chira, I. **Riposan**. Turnarea Metalelor si Aliajelor. *Ed.Didactica si Pedagogica*, Bucuresti, 1978, 141 pagini. **Recenzii**: Chemical Abstracts (SUA), B61427v, 91, 1979.

2. L. Sofroni, C. Bratu, A. Voicu, I. **Riposan**, V. Brabie, I. Chira, M. Constantinescu, C. Popa. Utilajul si tehnologia turnarii. *Ed.Didactica si Pedagogica*, Bucuresti, 1980, 404 pagini.

3. I. **Riposan**, M. Chisamera. Tehnologia elaborarii si turnarii fontei. *Ed.Didactica si Pedagogica*, Bucuresti, 1981. **Recenzii/Indexari**: SCOPUS

4. I. **Riposan**, L. Sofroni. Fonte cu grafit vermicular. *Ed.Tehnica*, Bucuresti, 1984, 334 pagini. **Recenzii/Indexari**: Chemical Abstracts (SUA), B224235t, 102, 1985; BCIRA Abstracts (Anglia); SCOPUS.

5. L. Sofroni, I. **Riposan**, V. Brabie, M. Chisamera. Turnarea fontei. *Ed.Didactica si Pedagogica*, Bucuresti, 1985, 420 pagini. **Recenzii/Indexari**: SCOPUS

6. N. Geru, D. Chirca, M. Bane, I. **Riposan**, M. Marin, G. Cosmeleata, T. Biolan. Materiale metalice (structura, proprietati, utilizare). *Editura Tehnica*, Bucuresti, 1985, 394 pagini.

7. L. Sofroni, I. **Riposan**, I. Chira. Fonte albe rezistente la uzare. *Editura Tehnica*, Bucuresti 1987, 263 pagini.

8. I. **Riposan**, L. Sofroni, M. Chisamera. Fonta Bainitica. *Editura Tehnica*, Bucuresti, 1989, 327 pagini. [ISSN 973-31-0054-4]. **Recenzii/Indexari**: Metals Abstracts CSA/METADDEX 1994-72-0278, 1994-51-0466, SCOPUS.

9. I. **Riposan**, I. Chira, M. Chisamera, L. Sofroni, S. Stan. FONTE. In: Tratat de Stiinta si Ingineria Materialelor Metalice, Vol. 3, ASTR-Academia de Stiinte Tehnice din Romania, *Ed. AGIR*, 2009, pp. 463-580.

10. M. Chisamera, I. **Riposan**, L. Sofroni, S. Stan. FABRICAREA PIESELOR DIN FONTA PRIN TURNARE. In: Tratat de Stiinta si Ingineria Materialelor Metalice, Vol. 4, ASTR-Academia de Stiinte Tehnice din Romania, *Ed. AGIR*, 2010, p. 534-717.

B.b. Carti tiparite in tipografii locale.

1. I. **Riposan**, M. Chisamera. Imbunatatirea calitatii fontelor destinate turnarii lingotierelor. *MIM-OID*, 1976. **Recenzii**: Chemical Abstracts (SUA), B25094a, 91, 1979.

2. I. **Riposan**. Tehnologia elaborarii si turnarii fontei. Tipografia IPB, 1980, 396 pagini.

3. V. Brabie, C. Bratu, L. Sofroni, I. **Riposan**. Tehnologia elaborarii si turnarii otelului. Tipografia IPB, 1993.

C. CULEGERI SI INDRUMARE

C.a. Lucrari tiparite de edituri centrale

1. C. Bratu, L. Sofroni, V. Brabie, I. **Riposan**, A. Voicu. Aplicatii si probleme de tehnologia turnarii aliajelor. *Ed. Didactica si Pedagogica*, Bucuresti, 1983.

C.b. Lucrari tiparite de tipografii locale

1. I. **Riposan**, C. Cernat. Elaborarea si turnarea fontelor de turnatorie (Indrumar de laborator), *Tipografia IPB*, 1976.

2. I. **Riposan**, C. Cernat, M. Chisamera. Elaborarea si turnarea aliajelor feroase-Tehnologia elaborarii si turnarii fontelor (Indrumar pentru intocmirea proiectelor de an), *Tipografia IPB*, 1979. **Recenzii**: Chemical Abstracts (SUA), B155844f, 101, 1984.

D. ARTICOLE SI STUDII DE SPECIALITATE

I. Articole/Studii publicate in Reviste si Volumele (Proceedings) unor conferinte

I.1 Reviste si Proceedings cotate si indexate ISI

I.1.1 Reviste cotate ISI [Web of Science/Science Citation Index Expanded].

1. I. Riposan, L. Sofroni. a) Study on the Stability of the Magnesium Treatment Effect in Vermicular Graphite Cast Iron. *International Cast Metals Journal* (SUA), 1978, nr. 3, p.23-28. **[ISI-Web of Science/Science Citation Index Expanded]**.

b) Untersuchung Über die Beständigkeit der Magnesium-Behandlungswirkung bei Gusseisen mit Vermikular-graphite. *Giesserei Praxis* (RFG), nr. 9, 1977, p. 125-131. c) Issledovanie ystoicivosti midifitiruiuscevo deistvia magna y ciugunah a vermikuliarnam grafitam. *Express Informatia* (URSS), 1977, nr.31, p.1-14. **Recenzii/Indexari:** Giesserei (RFG), nr.9, 1978, p.20; Metals Abstracts CSA/METADEX 1977-43-0196, 1978-31-3218, Chemical Abstracts (SUA), 155424m, 87, 1978, 270230, 90, 1979; SCOPUS; Compendex.

2. I. Riposan, L. Sofroni, M. Chisamera. a) Etude de la resistance a l'oxidation a 600°C et de la resistance aux choc thermiques des fonts a graphite vermiculaire. *Fonderie*, 1980, nr. 395, pp. 124-125 **[ISI-Web of Science/Science Citation Index Expanded]**; b) Recherches concernant le comportement a l'oxidation et au choc thermique des fonts a graphite vermiculaire. *46-eme Congres International de Fonderie*, Madrid, Spain, 1979 (Lucrare Oficiala Romania); c) Soprotivlenie okisleniu i termostoikosti ciugunov a rezilicnoi formoi grafitnih vkluceni, *Express Informatia*, 1980, nr. 25, pp. 8-12. **Recenzii/Indexari:** Imono, nr. 3, 1980, p. 199; BCIRA Abstracts, March 1980, p. 47; Giesserei, nr. 26, 1981, p. 18; Metals Abstracts CSA/METADEX 1980-35-1697.

3. M. Barstow, I. Riposan, M. Chisamera. Efficient Cast Iron Microstructure for Anode-Collars in Grey or Ductile Irons. *Light Metals*, 1997, pp. 619-623. **Accession Number:** WOS:000071821400092 **[ISI-Web of Science/Science Citation Index Expanded]**. *TMS Annual Meeting and Exhibition*, Febr.1997, Orlando, USA. **Recenzii/Indexari:** ISI Proceedings, SCOPUS.

4. M. Chisamera, I. Riposan. New Methods to obtain Coral Graphite Cast Iron. *International Journal of Cast Metals Research*, vol.11, No.5, pp. 325-331, 1999, **Accession Number:** WOS:000082714700013 ISSN 1364-0461 **[ISI-Web of Science/Science Citation Index Expanded]**. *Science and Processing of Cast Iron International Conference (SPCI-6)*, 1-3.10.1998, Birmingham, Alabama, USA; **Recenzii/Indexari:** Current Contents Connect; Metals Abstracts CSA/METADEX 1999-51-1639; SCOPUS.

5. I. Riposan, M. Chisamera, S. Stan, T. Skaland. Graphite Nucleants (Microinclusions) Characterization in Ca/Sr Inoculated Grey Irons. *Int. Journal of Cast Metal Research*, Vol. 16, No. 1-3, pp.105-111, 2003. **Accession Number:** WOS:000186431800020 DOI: **10.1179/136404603225006756**, ISSN 1364-0461 **[ISI-Web of Science/Science Citation Index Expanded]**. **Recenzii/Indexari:** ISI Proceedings, Current Contents Connect, SCOPUS, Chem Port Connection; Metals Abstracts CSA/METADEX 2004-51-0359.

6. I. Riposan, M. Chisamera, S. Stan. Factors influencing on the microstructure and mechanical properties of as-cast and heat treated 400-18 grade ductile cast iron. *Int. Journal of Cast Metals Research*, 2007, Vol. 20, No. 2, pp. 64-67. **Accession Number:** WOS:000250924600006 DOI: **10.1179/136404607X239717**, ISSN 1364-0461 **[ISI-Web of Science/Science Citation Index Expanded]**. **Recenzii/Indexari:** SCOPUS; INSPEC.

7. I. Riposan, M. Chisamera, S. Stan, D. White. Chilling properties of Ba/Ca/Sr inoculated grey cast irons. *Int. Journal of Cast Metals Research*, 2007, Vol. 20, No.2, pp. 90-97. **Accession Number:** WOS:000250924600010 DOI: **10.1179/136404607X239726**, ISSN 1364-0461 **[ISI-Web of Science/Science Citation Index Expanded]**. **Recenzii/Indexari:** SCOPUS; INSPEC.

8. I. Riposan, M. Chisamera, S. Stan. Influencing factors on as-cast and heat treated 400-18 grade characteristics. *CHINA FOUNDRY*, ISSN 1672-6421 **[ISI-Web of Science/Science Citation Index Expanded]**, Vol. 4, no. 4, pp. 300-303, 2007. **Accession Number:** WOS:000255392200010 **Recenzii/Indexari:** SCOPUS

9. M. Chisamera, I. Riposan, S. Stan. Morphological Characterization of SiC and Al₂O₃ for Particulate Cast Metal Matrix Composites. *Revista Romana de Materiale - Romanian Journal of Materials*, 2008, **38**, (3), pp. 237-243, **Accession Number:** WOS:000259098100008 ISSN 1583-3186 **[ISI-Web of Science /Science Citation Index Expanded]**.

10. I. Riposan, M. Chisamera, S. Stan. SiC-Cast Iron Matrix Composite, a New Material for Wear Applications. *Revista Romana de Materiale / Romanian Journal of Materials*, 2008, **38**, (2), pp. 116-122, **Accession Number:** WOS:000256898000005 ISSN 1583-3186, **[ISI-Web of Science /Science Citation Index Expanded]**.

11. I. Riposan, M. Chisamera, S. Stan, P. Toboc, C. Ecob, D. White. Al,Zr-FeSi Preconditioning of Grey Cast Irons. *Materials Science and Technology*, 2008, Vol. 24, No. 5, pp. 578-584, **Accession Number:** WOS:000257140000010

12. M. Chisamera, I. Riposan, S. Stan, D. White, G. Grasmö. Graphite Nucleation Control in Grey Cast Iron. *International Journal of Cast Metals Research*, December 2008, Vol. 21, No 1-4, pp. 39-44. **Accession Number:** WOS:000261010000009 DOI: 10.1179/136404608X361639, ISSN 1364-0461, [ISI-Web of Science/Science Citation Index Expanded]. *The 10th Asian Foundry Congress (AFC-10)*, Nagoya, Japan, May 2008, pp.180-185. **Recenzii/Indexari:** SCOPUS,

13. I. Riposan, M. Chisamera, S. Stan, C. Ecob, D. Wilkinson. Role of Al, Ti, Zr in Grey Iron Preconditioning/Inoculation. *Journal of Materials Engineering and Performances*, Vol. 18 (1), February 2009, pp. 83-87. **Accession Number:** WOS: 000263063400014 DOI: **10.1007/s11665-008-9260-2**, ISSN 1059-9495, [ISI - Web of Science/Science Citation Index Expanded]. **Recenzii/Indexari:** SCOPUS

14. M.M. Mourad, A.A. Nofal, M.A. Waly, M.R. El Kousy, I. Riposan. Effect of Recycling Ferrous Scrap Containing Residual of Tin, Copper and Chromium on the Properties of Hypoeutectic Grey Cast Irons. *Metalurgia International*, Vol XIII, Nr. 1, 2009, pp.5-14. **Accession Number:** WOS:000263374100001 ISSN 1582-2214, [ISI-Web of Science/Science Citation Index Expanded]. **Recenzii/Indexari:** SCOPUS

15. M.M. Mourad, A.A. Nofal, M.A. Waly, M.R. El Kousy, I. Riposan. Effect of Recycling Ferrous Scrap Containing Residual of Tin, Copper and Chromium on the Properties of Hypereutectic Grey Cast Irons. *Metalurgia International*, Vol. XIV, Nr. 2, 2009, pp. 5-13. **Accession Number:** WOS:000263374400001 ISSN 1582-2214, [ISI- Web of Science/Science Citation Index Expanded]. **Recenzii/Indexari:** SCOPUS

16. S. Stan, M. Chisamera, I. Riposan. Solidification Pattern of Hypoeutectic Grey Irons in Wedge Test Samples. *Metalurgia International*, Vol. XIV, 2009, Special Issue No. 2, pp. 27-30, **Accession Number:** WOS:000265001400006 ISSN 1582-2214 [ISI-Web of Science/Science Citation Index Expanded]. *BRAMAT 2009, Int. Conference on Mat. Science & Eng.*, Febr. 26-28, 2009, Brasov, Romania. **Recenzii/Indexari:** SCOPUS

17. S. Seidu, I. Riposan. Graphite Characteristics in Preconditioned and Inoculated Ductile Irons for Thin Wall Castings. *Metalurgia International*, Vol. XIV, 2009, Special Issue No. 2, pp. 75-78, **Accession Number:** WOS:000265001400018 ISSN 1582-2214 [ISI-Web of Science/Science Citation Index Expanded]. *BRAMAT 2009, Int. Conference on Mat. Science & Eng.*, Febr. 26-28, 2009, Brasov, Romania. **Recenzii/Indexari:** SCOPUS

18. M. Chisamera, I. Riposan, S. Stan, D. White. Influence of residual aluminium on solidification pattern of ductile iron. *International Journal of Cast Metals Research*, Vol. 22, No. 6, 2009, pp. 401-410. **Accession Number:** WOS: 000271254100001 DOI: **10.1179/174313309X436619**, ISSN 1364-0461, [ISI-Web of Science/Science Citation Index Expanded]. **Recenzii/Indexari:** SCOPUS

19. M. Chisamera, I. Riposan, S. Stan, E. Stefan, G. Costache. Thermal analysis control of in-mould and ladle inoculated grey cast irons. *CHINA FOUNDRY*, Vol. 6, No. 2, pp. 145-151, 2009. **Accession Number:** WOS:00026666800010 ISSN 1672-6421 [ISI-Web of Science/Science Citation Index Expanded]. **Recenzii/Indexari:** SCOPUS

20. I. Riposan, M. Chisamera, S. Stan, D. White. Complex (Mn,X)S compounds - major sites for graphite nucleation in grey cast iron. *CHINA FOUNDRY*, Vol. 6, No. 4, 2009, pp. 352-357. **Accession Number:** WOS:000272457700011 ISSN 1672-6421, [ISI-Web of Science/Science Citation Index Expanded].

21. I. Riposan, M. Chisamera, S. Stan. Performance of heavy ductile iron castings for windmills. *CHINA FOUNDRY*, Vol. 7, No. 2, 2010, pp. 163-170. **Accession Number:** WOS:000278107700012; ISSN 1672-6421, [ISI-Web of Science/Science Citation Index Expanded]. **Recenzii/Indexari:** SCOPUS

22. I. Riposan, M. Chisamera, S. Stan, C. Hartung, D. White. Three-Stage Model for the Nucleation of Graphite in Grey Cast Iron. *Proceedings of the Carl Loper Cast Iron Symposium*, May 27-29, 2009, Madison, Wisconsin, USA, pp. 191-200; *Materials Science and Technology*, Vol. 26, No. 12, pp. 1439-1447, 2010 **Accession Number:** WOS:000284688000005 [published online July 28, 2010, DOI: 10.1179/026708309X12495548508626] ISSN 0267-0836, [ISI-Web of Science/Science Citation Index Expanded]. **Recenzii/Indexari:** SCOPUS; Compendex; INSPEC

23. I. Riposan, M. Chisamera, S. Stan, P.Toboc, G. Grasmö, D. White, C. Ecob, C. Hartung. Benefits of Residual Aluminum in Ductile Iron. *Journal of Materials Engineering and Performances*, Vol. 20 (1), 2011, pp. 57- 64, **Accession Number:** WOS:000286212500007 DOI: 10.1007/s11665-010-9640-2 ISSN 1059-9495, [published online April 16, 2010, JMEPEG _ASM International DOI: 10.1007/s11665-010-9640-2] [ISI - Web of Science/Science Citation Index Expanded]. **Recenzii/Indexari:** SCOPUS

24. M. Chisamera, I. Riposan, S. Stan, P. Toboc, T. Skaland, D.White. Shrinkage Evaluation in Ductile Iron as Mold / Inoculant Type Influence. *International Journal of Cast Metals Research*, Vol. 24, No. 1, February 2011, pp. 28-36,

25. M. Chisamera, S. Stan, **I. Riposan**, G. Grasmö, C. Hartung. Structure characteristics of Ba/Ca/Sr inoculated hypoeutectic grey cast irons. *International Journal of Cast Metals Research*, 2011, Vol. 24, No. 6, pp. 363-369. **Accession Number:** WOS:000296972600007 [Publication date: 2011-10-01; Accepted 15.03.2011; On-line first 05.10.2011], DOI 10.1179/1743133611Y.0000000011, ISSN 1364-0461 [ISI-Web of Science/Science Citation Index Expanded].

26. M. Chisamera, **I. Riposan**, S. Stan, C. Militaru, I. Anton, M. Barstow. Inoculated Slightly Hypereutectic Gray Cast Irons. *Journal of Materials Engineering and Performances* [DOI: 10.1007/s11665-011-9907-2], On-line First, 30 March 2011; Vol. 21, No. 3, 2012, pp. 331-338, **Accession Number:** WOS:000301798500006 ISSN 1059-9495, [ISI - Web of Science/Science Citation Index Expanded]. **Recenzii/Indexari:** SCOPUS

27. M. Chisamera, **I. Riposan**, S. Stan, M. Barstow. Structure Characteristics of Iron Powder Treated Slightly Hypereutectic Grey Irons. *International Journal of Cast Metals Research*, 2011, Vol. 24, No. 6, pp. 370-377. **Accession Number:** WOS:000296972600008 [Publication date: 2011-10-01; Accepted 14.03.2011; On-line first 05.10.2011], DOI 10.1179/1743133611Y.0000000010, ISSN 1364-0461 [ISI-Web of Science/Science Citation Index Expanded].

28. **I. Riposan**, M. Chisamera, S. Stan, M. Barstow. Improving chill control in iron powder treated slightly hypereutectic grey cast irons. *CHINA FOUNDRY*, Vol. 8, No. 2, pp. 228-234, 2011. **Accession Number:** WOS:000291401200014 ISSN 1672-6421, [ISI-Web of Science/Science Citation Index Expanded].

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19. V. Uta, I.Riposan. Structural Characteristics of Ductile Iron at Different Rare Earth Contribution from a Magnesium Ferrosilicon Alloy. *5th International Conference on Advanced Materials and Structures - AMS '13*, Timisoara, 24 - 25 October 2013; [Solid State Phenomena](#), ISSN: 1012-0394, ISSN/ISO: Solid State Phenom., Vol. 216, 2014, pp. 17-22, **ISI Accession Number:** WOS:000347924100003; DOI: 10.4028/www.scientific.net/SSP.216.17, Trans Tech. Publications, Switzerland. **Recenzii/Indexari:** [Elsevier SCOPUS](#), [ISI](#) (ISTP, CPCI, Web of Science), [Ei Compendex](#) (CPX), [Cambridge Scientific Abstracts](#) (CSA), [Chemical Abstracts](#) (CA), [Institution of Electrical Engineers](#) (IEE), [Google Scholar](#), etc.

20. L.M.Harcea, I.Riposan. Influence of Cooling Rate on the Structural Characteristics of Ca and Rare Earth Inoculated, Low-S Grey Cast Iron. *5th International Conference on Advanced Materials and Structures - AMS '13*, Timisoara, 24 - 25 October 2013; [Solid State Phenomena](#), ISSN: 1012-0394, ISSN/ISO: Solid State Phenom., Vol. 216, 2014, pp. 73-78, **Accession Number:** WOS:000347924100013; DOI: 10.4028/www.scientific.net/SSP.216.73 Trans Tech. Publications, Switzerland. **Recenzii/Indexari:** [Elsevier SCOPUS](#), [ISI](#) (ISTP, CPCI, Web of Science), [Ei Compendex](#) (CPX), [Cambridge Scientific Abstracts](#) (CSA), [Chemical Abstracts](#) (CA), [Institution of Electrical Engineers](#) (IEE), [Google Scholar](#), etc.

21. I. Riposan, V. Uta, S. Stan, R.L. Naro, D.C. Williams. The Effect of Minimizing Rare Earth Elements during Nodulizing Treatments and the Inoculation of Ductile (S.G.) Iron. *AFS Transactions*, Vol. 122, pp. 219-236, 2014. **Recenzii/Indexari:** **ISI Proceedings**.

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I.2 Reviste de circulatie internationala

I.2.1 Reviste straine indexate in Baze de Date Internationale (BDI) representative

1. L. Sofroni, **I. Riposan**, I. Chira. **a)** Uhliakate prisady ke zlepšení povrchovo jakosti litinových a ocelových odlisků adlevaných do syrových forem. *Slevarenství* (RSC), 1975, Nr.5, p.191-196; **b)** Uglerodistie dobovki dlia ulucisenia cacestva poverhnosti ciugunnih i stalnih otlivok, poluciaemih v serii formah. *Express-Informatia* (URSS), 1975, Nr.36, p.15-23; **Recenzii/Indexari:** Giesserei (RFG), nr.19, 1976, p.18; Chemical Abstracts (SUA), 47918e, 84, 1976.

2. L. Sofroni, **I. Riposan**, I. Chira. **a)** Einehe Gesichtspunkte in Zusammenhang mit der Herstellung von verschleissfertem und thermoschock bertandigen meliertem Gusseisen mit Kugelgraphit. *Giesserei Praxis*, 1975, nr. 2, pp. 22-28; **b)** Quelques idees concernant l'obtention des fontes truitées au graphite spheroidal resistant a l'usure et au choc thermique, *41-e Congres International de Fonderie*, Liege, Belgique, 1974, Paper 15 (Lucrare Oficiala Romania); **c)** Polucenie visokoprocínovo polevinciatovo ciuguna a povisennim soprotivleniem iznosy i teplovam udarom, *Express Informatia*, 1974, nr. 48, pp. 15-

22. **Recenzii/Indexari:** Giesserei, 1976, p. 222; Metals Abstracts CSA/METADEx 1975-31-1960; Chemical Abstracts, 135540k, 83, 1975; SCOPUS; Compendex.

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E. INVENTII

E.1. Inventii Indexate in Derwent Innovation Index/ISI Web of Knowledge

1. L. Sofroni, **I. Riposan**, M. Chisamera, N. Rusu. Retea de turnare pentru modificarea fontei in forma de turnare (Procedeu de intensificare a efectului de modificare a fontei in forma de turnare). Cerere de brevet nr. 108209/21.07.1982. Brevet nr. RO 84.769-A /29.02.1984. Titular IPB. **Indexare:** Derwent Innovation Index/ ISI Web of Knowledge, 1985-048260 [Cast iron pouring rigging for in mould modification-consists of reaction chamber with surrounding sheet insulation layer].
2. L. Sofroni, **I. Riposan**, M. Chisamera, M. Melita. Procedee de aliere si modificare superficiala a pieselor turnate (Procedee de aliere si modificare superficiala a pieselor din aliaje feroase si neferoase). Cerere de brevet nr. 108.207/21.07.1982. Brevet nr. RO 85.825-A /26.05.1984. Titular IPB. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1985-133066 [Alloying and surface modification of castings-consists of reduced pressure granulate admixture throughout casting for sealed coating of prod.]; Chemical Abstracts, P 54938W, 104, 1985.
3. L. Sofroni, **I. Riposan**, G. Militaru, D. Lazar, G. Tivrica. Procedeu de tratare a aliajelor in oala de turnare (Procedeu de prelucrare in oala a aliajelor lichide feroase si neferoase). Cerere brevet nr. 110.650/14.04.1983. Brevet nr. RO 87.046-A /30.11.1984. Titular IPB. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1986-066914 [Ferrous and non ferrous alloy treatment during casting-consists of granulate with powder material layer (s) for controlled desulphurisation etc.]
4. **I. Riposan**, L. Sofroni, A. Mitrofan, M. Chisamera, T. Ichim. Compozitii pentru modificador utilizabil la obtinerea fontelor cu grafit vermicular (Modificator pentru obtinerea fontelor cu grafit vermicular/compact). Cerere brevet nr. 111.233/11.06.1983. Brevet nr. RO 86.310/21.11.1984. Titular IPB. **Indexare:** Chemical Abstracts, P 25381m, 108, 1988.
5. **I. Riposan**, A. Mitrofan, P. Decean, A. Muresan, M. Chisamera. Procedee de modificare a fontei in vederea obtinerii grafitului vermicular (Procedee de obtinere a pieselor mari din fonta cu grafit vermicular). Cerere de brevet nr. 114.478/08.05.1984. Brevet nr. RO 89.742-A /27.02.1986. Titular I.M.Alba Iulia. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1987-035087 [Vermicular graphite formation through iron modification-consists of silicon titanium calcium and iron based modification for compacting and graphitising]; Chemical Abstracts, P 217679V, 106, 1987.
6. **I. Riposan**, M. Chisamera, I. Stancu, T. Ichim. Fonta refractara. Cerere brevet nr.116.319/19.11.1984. Brevet nr. RO 90.045-A /19.03.1986. Titular: IPT Campina. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1987-048103 [Workable abrasion resistant medium-alloyed refractory cast iron-contg. vermicular graphite, silicon, chromium and manganese]; Chemical Abstracts, P 203170f, 107, 1987.
7. **I. Riposan**, M. Chisamera, T. Ichim, C. Radu, A. Diaconu, I. Sandor. Procedeu de modificare grafitizanta a fontelor. Cerere brevet nr.116.321/19.11.1984. Brevet nr. RO 90.465-A/23.05.1986. Titular: IPT Campina. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1987-141276 [Graphitising modification of cast iron-by inoculating liq. Cast iron with cast iron shaving contg. graphite in structure]; Chemical Abstracts, P 98881j, 108, 1988.
8. M. Chisamera, **I. Riposan**, M. Boghici, S. Cibian, M. Matu. Procedeu de obtinere a fontelor cu grafit vermicular. Cerere brevet nr.117.479/30.01.1985. Brevet nr. RO 90.745-A/23.06.1986. Titular: I.Auto Brasov. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1987-155238 [cast iron contg. Compact vermicular graphite-prepd. from cast iron having high sulphur content by modifying without prior desulphurisation]; Chemical Abstracts, P 98880h, 108, 1988.
9. **I. Riposan**, M. Chisamera, M. Boghici, S. Cibanu, T. Ichim. Modificator pentru obtinerea fontei cu grafit vermicular/compact. Cerere brevet nr.117.799/01.03.1985. Brevet nr. RO 91.203-A/02.08.1986. Titular: I.Auto Brasov. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1987-296807 [Inoculant for compact vermicular graphite iron mfr.-consists of silicon and magnesium based additive for up to 0.03 per cent sulphur]; Chemical Abstracts, P 225063W, 108, 1988.
10. M. Chisamera, **I. Riposan**, C. Marcu. Procedeu pentru modificarea aliajului lichid in forma de turnare (Procedeu de obtinere a fontelor cu grafit nodular si vermicular). Cerere brevet nr.119.164/17.06.1985. Brevet nr. RO 92.095-A/24.02.1987. Titular: I.M.Alba Iulia. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1987-353587 [Liquid alloy inoculation in foundry mould-consists of introduction of fusible sheet between reaction chamber and ash collector channel]; Chemical Abstracts, P 77524a, 109, 1988.
11. **I. Riposan**, M. Chisamera, A. Mitrofan, V. Decean, N. Rosu. Procedeu de obtinere a fontelor cenusii cu grad de saturatie in carbon ridicat, de inalta rezistenta. Cerere brevet nr.122.755/26.03.1986. Brevet nr. RO 94.510-A/26.01.1987. Titular: I.M.Alba Iulia. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1989-030246 [Mfg. high strength high carbon irons-by reduced superheating, and controlled modification and casting]; Chemical Abstracts, P 40443J, 112, 1990.

12. M. Chisamera, I. Riposan, L. Sofroni. Procedeu de obtinere a fontelor cu grafit vermicular/compact. Cerere brevet nr.124.916/03.10.1986. Brevet nr. RO 95.564-A/23.05.1988. Titular: Intr.UNIO Satu Mare. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1989-128046 [Compact vermicular graphite iron prodn. comprises controlled addn. of sulphur based on nodular graphite content, for lamellar graphite formation].

13. I. Riposan, M. Chisamera, G. Simionescu. Procedeu de obtinere a pieselor cu pereti subtiri din fonta cu grafit vermicular/compact. Cerere brevet nr.124.918/03.10.1986. Brevet nr. RO 95.565-A/25.05.1988. Titular: FUPSICH Focsani. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1989-128047 [Compact vermicular graphite iron thin wall parts prod.-comprises casting with recirculation of prod. and inoculation with alloy contg. magnesium and rare earth metals].

14. I. Riposan, M. Chisamera, E. Bodnar, C. Kopusi. Procedeu de elaborare a fontei in cubilou. Cerere brevet nr.127.871/16.04.1987. Brevet nr. RO 98.142-A/28.03.1989. Titular: Intr.UNIO Satu Mare. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1990-153191 [Treatment of cast iron in crucible, etc.-comprises air feed for optimum combustion and control of coke layer thickness, increasing productivity].

15. I. Riposan, Z. Demeny, M. Vladoiu, C. Nicolescu, M. Chisamera. Procedeu de obtinere a Fgn Bainitice. Cerere brevet nr.129.973/05.10.1987. Brevet nr. RO 98.052-A/17.03.1989. Titular: I.A. Pitesti. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1990-190922 [Mfg. bainitic nodular graphite iron-by melting modification by magnesium, rare earth, bismuth and silicon, austenitising, isothermal holding, and air cooling].

16. I. Riposan, M. Chisamera, D. Solduban, L. Matesoi. Modificator pentru fonte. Cerere brevet nr.129.975/05.10.1987. Brevet nr. RO 98.053-A/22.03.1989. Titular: C.S.V.Calan. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1990-190923 [Inoculator for iron modification-comprises high nickel blend of high density and low melting point].

17. I. Riposan, C. Kopusi, G. Muresan, M. Roatis. Fonta cu grafit nodular bainitica. Cerere brevet nr.130287/02.11.1987. Brevet nr. RO 98.054-A/17.03.1989. Titular: Intr.UNIO Satu Mare. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1990-190924 [Iron contg. bainitic nodular graphite-comprises magnesium or rare earth modified material capable of alloying with steel or iron scrap.].

18. E. Bodnar, I. Riposan, C. Kopusi, M. Chisamera, C. Morar, G. Muresan. Procedeu si instalatie pentru desulfurarea, dezoxidarea si modificarea in flux continuu a fontei [Instalatie pentru tratarea fontei in stare lichida]. Cerere brevet nr.128.478/03.06.1987. Brevet nr. RO 98.601-A/30.05.1989. Titular: Intr.UNIO Satu Mare. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1990-359655 [Continuous desulphurising and deoxidising of molten pig iron-using pouring receptacle, unit for modification and compactation of graphite and section to separate and remove slag].

19. I. Riposan, M. Chisamera, G. Simionescu. Procedeu de modificare grafitizanta a fontelor cu grafit nodular. Cerere brevet nr.133.972/. Brevet nr. RO 101.339-A/28.09.1989. Titular: FUPSICH Focsani. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1992-413113 [Graphitising inoculation of nodular graphite cast iron-comprises modification by agents eliminating carbide (s)].

20. I. Riposan, V. Pinte, I. Petrus, M. Chisamera. Brichete active pentru cubilou. Cerere brevet nr.139.181/10.04.1989. Brevet nr. RO 101.921-A/1990. Titular: I.P.R.9 Mai Turda. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1993-300552 [Active briquette contg. silicon carbide, for cast iron-based on industrial carbide lime dust, dextrin, and cement powder].

21. V. Pinte, I. Petrus, I. Riposan, M. Chisamera. Adaos pentru aliaje feroase. Cerere brevet nr. 139.182/10.04.1989. Brevet nr. RO 101.922-A/1990. Titular: I.P.R.9 Mai Turda. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1993-300553 [Additive for modification of ferrous alloys-consists of 76 to 98 per cent silicon carbide based multipurpose agent].

22. I. Riposan, V. Pinte, M. Chisamera. Brichete active pentru cubilou. [Brichete active de carbura de siliciu pentru cubilou, cu actiune suplimentara de carburare]. Cerere brevet nr.146.087/11.10.1990. Brevet nr. RO 105.062-A/30.08.1991. Titular: S.C.CASIROM SA Turda. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1993-326117 [Active briquette for cupola iron inoculation-consists of formulation with max. 45 per cent active silicon and carbon concentrations].

23. I. Riposan, V. Pinte, M. Chisamera. Adaos pentru aliaja feroase. [Adaos pe baza de carbura de siliciu, cu capacitate ridicata de carburare, pentru aliajele feroase]. Cerere brevet nr.146.088/11.10.1990. Brevet nr. RO 105.063-A/30.08.1991. Titular: S.C.CASIROM SA Turda. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1993-326118 [Carburising additive for ferrous alloys-has controlled silicon carbide (s) and petroleum coke contents].

24. L. Dinescu, M. Dragulin, I. Manescu, I. Riposan, M. Surdulescu, I.A. Bacanu, M. Pasnicu. Procedeu si instalatie de impuscare a combustibilului marunt si a diverselor adaosuri in cubilou. Cerere brevet nr.122.019/28.01.1986. Brevet nr. RO 94.293-A/23.12.1987. Titular: ICSITPSC Bucuresti. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge,

1988-358833 [Pneumatic igniter for cupola lean fuel with additives-consists of air heater and dispenser, with valve and circulation pipe].

25. M. Boghici, I. Riposan, G. Marin, S. Marosi. Procedeu EXPRESS pentru realizarea pieselor din aliaje feroase. Cerere brevet nr. 141329/21.08.1989. Brevet nr. RO 103695-A/30.04.1993. Titular: Intr.Auto. Brasov. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1994-261428 [Lozenges to affect cross-heads during metal casting-contg. silica, alumina, ferric oxide, aluminium, silicon carbide and carbon].

26. I. Riposan, V. Pinte, M. Chisamera. Carbura de siliciu metalurgica granulata utilizata ca agent de reducere la producerea otelului pentru obtinerea zgurii albe. Cerere brevet nr. 1077624/20.05.1993. Brevet nr. RO 107624-B1/30.12.1993. Titular: Intr.SC CARBOCHIM SA Cluj-Napoca. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1995-034058 [Metallurgical granular silicon carbide-used in steel production as reducing agent for preparing white slag].

27. I. Riposan, V. Pinte, M. Chisamera. Carbura de siliciu metalurgica granulata utilizata la producerea fontelor cu grafit nodular si vermicular. Cerere brevet nr. 1077625/20.05.1993. Brevet nr. RO 107625-B1/30.12.1993. Titular: SC CARBOCHIM SA Cluj-Napoca. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1995-034059 [Metallurgical granular silicon carbide-used at the production of nodular and vermicular cast irons].

28. I. Riposan, S. Lupsan, N. Iancu, M. Chisamera, O. Popa, C. Crisan. Fonta cu grafit nodular pentru turnarea centrifugala a tuburilor. Cerere brevet nr. 147.810/17.06.1991. Brevet nr. RO 109461-B1/28.02.1995. Titular: SC METALURGICA SA Aiud. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1995-365075 [Nodular cast iron-for centrifugal casting of tubes].

29. I. Riposan, V. Decean, M. Chisamera, G. Drasoveanu, I. Borsan. Scule de stantare din Fgn Bainitica. Cerere brevet nr. 147.393/22.04.1991. Brevet nr. RO 109760-B1/30.05.1995. Titular: SC MECANICA SA Alba Iulia. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1996-085713 [Bainitic cast iron containing nodular graphite for use in tool mfr.-contains alloying additions of silicon, nickel, molybdenum, magnesium, manganese, chromium and is subjected to a specified heat treatment regime].

30. I. Riposan, M. Chisamera, I. Petrus, S. Babos. Masa refractara acida pentru captusirea cuptoarelor industriale. Cerere brevet nr. 110470/30.06.1994. Brevet nr. RO 110470-B1/30.01.1996. Titular: SC CASIROM SA Turda. **Indexare:** Derwent Innovation Index/ISI Web of Knowledge, 1996-400202 [Acidic refractory compsn. for lining of industrial furnaces-contains quartz mass, superior chemical sand, metallurgical silicon carbide and sintering agent].

E. 2. Inventii

1. M. Chisamera, I. Riposan, C. Kopusi, E. Bodnar, C. Morar, C. Alexe, T. Ichim. Procedeu si instalatie pentru desulfurarea si dezoxidarea concomitenta si continua a fontei [Instalatie pentru tratarea fontei in stare lichida]. Cerere brevet nr.127.059/17.02.1987. Brevet nr. RO 98.394/31.03.1989. Titular: Intr.UNIO Satu Mare.

2. I. Riposan, M. Chisamera, C. Kopusi, E. Bodnar, C. Morar, C. Alexe, T. Ichim. Procedeu si instalatie pentru modificarea continua a fontelor. Cerere brevet nr.127.060/17.02.1987. Brevet nr. RO 98.393/31.03.1989. Titular: Intr.UNIO Satu Mare.

3. I. Riposan, M. Chisamera, A. Mitrofa, P. Decean. Modificator grafitizant sub forma de pastile pentru fonte. Cerere brevet nr.127.438/14.03.1987. Brevet nr. RO 98.395/31.03.1989. Titular: I.M.Alba Iulia

4. I. Riposan, M. Chisamera, G. Spinciu, M. Boghici, C. Alexe, T. Ichim. Brichete modificatoare cu magneziu (Compozitie pentru modificarea fontelor). Cerere brevet nr.132.638/18.03.1988. Brevet nr. RO 98.955/29.07.1989. Titular: I.Auto Brasov.

5. M. Chisamera, L. Sofroni, I. Riposan, E. Bodnar, C. Kopusi, A. Bondici, C. Morar. Procedeu de tratare a aliajelor feroase in stare lichida (Compozitie pentru tratarea aliajelor feroase). Cerere brevet nr.132.639/18.03.1988. Brevet nr. RO 98.956/29.07.1989. Titular: Intr.UNIO Satu Mare.

F. CONTRACTE CERCETARE

F.1. Contracte de cercetare la care a existat calitatea de director/responsabil

I. Contracte internationale

1. I. Riposan, M. Chisamera, S. Stan. Graphite Nucleation in Grey Cast Irons. Contract international, 1998-1999, UPB/CEMS-ELKEM ASA Research, Norvegia.

- 2. I. Riposan**, M. Chisamera, S. Stan. Grey Iron Inoculation Mechanisms. Contract international, 2000, UPB/CEMS-ELKEM ASA Research, Norvegia.
- 3. I. Riposan**, M. Chisamera, S. Stan. Shrinkage Evaluation in Ductile Iron. Contract international, 2001-2002, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
- 4. I. Riposan**, M. Chisamera, S. Stan. Effects of Al, Zr, and Ti in the nucleation process for grey iron. Contract international Nr. 1, 2003, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
- 5. I. Riposan**, M. Chisamera, S. Stan. Principal nucleation sites for ductile iron. Contract international Nr. 2, 2003, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
- 6. I. Riposan**, M. Chisamera, S. Stan. Principal differences in microparticles for Mg vs. MgFeSi treated ductile irons. Contract international Nr. 3, 2003, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
- 7. I. Riposan**, M. Chisamera, S. Stan. Investigation of the optimum Al-content in grey iron as graphitizing influence. Contract international Nr. 1, 2004, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
- 8. I. Riposan**, M. Chisamera, S. Stan. Investigation of the fundamental nucleation effects of Zr in grey iron. Contract international Nr. 2, 2004, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
- 9. I. Riposan**, M. Chisamera, S. Stan. Effects of Ba in comparison to Ca and Sr in grey iron. Contract international Nr. 3, 2004, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
- 10. I. Riposan**, M. Chisamera, S. Stan, P. Toboc. Role of Aluminium in ductile iron. Contract international Nr. 1, 2005, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
- 11. I. Riposan**, M. Chisamera, S. Stan, P. Toboc. Effects of rare earth's in nucleation of (low sulphur) grey iron. Contract international Nr. 2, 2005, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
- 12. I. Riposan**, M. Chisamera, S. Stan, P. Toboc. Calcium-Barium interactions in inoculants. Contract international Nr. 3, 2005, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
- 13. I. Riposan**, M. Chisamera, S. Stan, P. Toboc. RE Inoculants in Low Sulphur Grey Iron. Contract international, Project ELKEM 52155, 2006-2007, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
- 14. I. Riposan**, M. Chisamera, S. Stan, P. Toboc. (Ca + Ba) Inoculants in Low Sulphur Grey Iron. Contract international, Project ELKEM 52157, 2006-2007, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.
- 15. I. Riposan**, M. Chisamera, S. Stan, P. Toboc. SiSiCAR80 Application in Cast Iron Industry. Contract international Nr. 807, 2007, UPB/CEMS-Metalkraft AS, Norvegia.
- 16. I. Riposan**, M. Chisamera, S. Stan, P. Toboc. Representative Inoculants Comparison in Low and Medium Sulphur Grey Irons. Contract international, Project ELKEM 52155-52157/2008-1, 2008-2010, UPB/CEMS-ELKEM ASA Foundry Products/Research, Norvegia.

II. Contracte Nationale

- 1. I. Riposan**, L. Sofroni, I. Chira, V. Brabie. V. Turnarea cilindrilor de laminar semiduri din Fgn pentru laminoarele de 650mm, de la CS.Hunedoara. Contract nr. 1A/1972, CTF-IPB-CS Hunedoara.
- 2. I. Riposan**, L. Sofroni. Cercetari privind micsorarea continutului de nichel la fontele folosite la fabricarea utlajului siderurgic. Contract nr. 11/1972, CTF-IPS-M.I.M.
- 3. I. Riposan**, L. Sofroni, I. Chira. Cercetari privind elaborarea si folosirea prealiajelor modificatoare necesare fabricarii utlajului siderurgic in vederea maririi duratei lui de exploatare. Contract nr. 77/1973, CTF-IPB-CS Hunedoara.
- 4. I. Riposan**, L. Sofroni. Fabricarea in cuptoare electrice cu inductie a prealiajelor pentru modificarea fontelor destinate turnarii cilindrilor de laminor, lingotierelor si podurilor de turnare. Contract nr. 364/1974, IPB-I.V.Calan.
- 5. I. Riposan**, L. Sofroni. Cercetarea durabilitatii in exploatare a cilindrilor de laminor prin imbunatatirea structurii si compozitiei fontelor. Contract nr. 284/1974, IPB-I.P.Vlahita.
- 6. I. Riposan**, L. Sofroni. Definitivarea tehnologiei de fabricare a modifierilor pentru utilaj siderurgic, produs la I.V.Calan . Contract nr. 77A/1975, IPB-C.S. Hunedoara

- 7. I. Riposan, L. Sofroni.** Experimentari de modificare a fontelor de prima fuziune in vederea turnarii lingotierelor. Contract nr. 79/1976, IPB-I.V.Calan.
- 8. I. Riposan, L. Sofroni.** Definitivarea tehnologiilor de fabricare a cilindrilor de laminor. Imbunatatirea calitatii suprafetei laminatelor si marirea preciziei dimensionale a acestora prin imbunatatirea calitatii cilindrilor de laminor. Contract nr. 170/1978. IPB-I.F.Vlahita.
- 9. I. Riposan, L. Sofroni.** Cercetari privind stabilirea tehnologiei de fabricare a lingotierelor din fonta de prima fuziune cu grafit nodular, obtinute direct din turnare (stabilirea compozitiei chimice, a prealiajelor, elaborare prealiaje, exp. laborator). Contract nr. 16/106 (313)/1979, IPB-C.I.Hunedoara.
- 10. I. Riposan, L. Sofroni.** Experimentari semiindustriale, la I.V. Calan, in vederea obtinerii lingotierelor din Fgn, fara tratament termic. Contract nr. 313A/1980, IPB-C.I. Hunedoara.
- 11. I. Riposan, L. Sofroni.** Experimentari industriale, la I.V. Calan, in vederea turnarii lingotierelor din fonta de prima fuziune cu grafit nodular, fara tratament termic. Contract nr. 313B/1981, IPB-C.I. Hunedoara.
- 12. I. Riposan, M. Chisamera.** Analizarea si stabilirea cauzelor care conduc la rebuturi peste limita admisa la turnarea cilindrilor de motoare si compresoare. Contract nr. 46-2-12/1982, IPB-Intr.Timpuri Noi Bucuresti.
- 13. I. Riposan, M. Chisamera.** Probe in vederea asimilarii tehnologiei de elaborare a fontei cu grafit vermicular, ca inlocuitor al fontei cu grafit lamellar utilizata la turnarea unor repere, componente ale autocamioanelor (Studiu analytic asupra utilizarii Fgv in producerea de autocamioane si proiectarea tehnologiei de turnare). Contract nr. 46-3-14/1983, IPB-Intr.Auto. Brasov.
- 14. I. Riposan, M. Chisamera.** Cercetari privind realizarea utilajului de turnare pentru otelarii din fonta cu grafit nodular si vermicular (Stabilirea tehnologiei de modificare si realizare a modificatorilor specifici din MODIVER). Contract nr. 46-3-5/1983, IPB-I.Mec.Alba Iulia.
- 15. I. Riposan, M. Chisamera.** Solutii pentru imbunatatirea calitatii camasilor de cilindrii de motoare si compresoare. Contract ne. 46-2-12A/1983, IPB-Intr.Timpuri Noi Bucuresti.
- 16. I. Riposan, M. Chisamera.** Experimentari de laborator si industriale in vederea stabilirii caracteristicilor optime ale modificatorilor in scopul obtinerii Fgv in conditiile Intr.Auto. Brasov (Probe in vederea asimilarii tehnologiei de elaborare a Fgv ca inlocuitor al Fgl utilizata la turnarea unor repere ale autocamioanelor). Contract nr. 46-3-14A/1984, IPB-Intr.Auto.Brasov.
- 17. I. Riposan, M. Chisamera.** Asistenta tehnica la turnarea lingotierelor si podurilor de turnare din Fgv (Cercetari privind realizarea utilajului de turnare pentru otelarii din Fgv si Fgn). Contract nr. 46-3-5A/1984, IPB-I.Mec.Alba Iulia.
- 18. I. Riposan, P. Toboc, M. Chisamera.** Studii privind realizarea din Fgn rezistenta la presiune (350-700 bari) si coroziune (H_2S+CO_2) a corpurilor pauckere, utilizate la forajul de mare adincime. Contract nr. 46-4-8/1984, IPB-I.Mec.Campina.
- 19. I. Riposan, M. Chisamera.** Influenta nodularitatii grafitului asupra caracteristicilor fontelor modificate; experimentari industriale (Probe in vederea asimilarii tehnologiei de elaborare a Fgv la turnarea unor repere ale autocamioanelor). Contract nr. 46-3-14B/1985, IPB-Intr.Auto Brasov.
- 20. I. Riposan, M. Chisamera.** Cercetari privind comportarea la uzare si soc termic a cilindrilor de laminor din Fgn si structura indefinita (Studiu asupra factorilor ce influenteaza calitatea cilindrilor de laminor). Contract nr. 46-5-2/1985, IPB-C.S.V. Calan.
- 21. I. Riposan, M. Chisamera.** Proiectarea si experimentarea tehnologiei de imbunatatire a parametrilor functionali ai cubiloului. Contract nr. 46-5-1/1985, IPB-ICSIT-PSCM Bucuresti.
- 22. I. Riposan, M. Chisamera.** Cercetari privind posibilitatea folosirii cocsului de furnal si al cocsului de turnatorie romanesc in cubilou si recuperarea caldurii fizice si chimice a gazelor arse. Contract nr. 36-6-3/1986, IPB- ICSIT-PSCM Bucuresti.
- 23. I. Riposan, M. Chisamera.** Studii si experimentari privind posibilitatile de reducere a consumului de fonta bruta la elaborarea Fc si Fgn. Contract nr. 36-6-4/1986, IPB- ICSIT-PSCM Bucuresti.
- 24. I. Riposan, M. Chisamera.** Experimentari de laborator privind comportarea la uzare si soc termic a probelor prelevate din cilindrii de laminar produsii de C.S.V. Calan (Cercetari privind comportarea la uzare si soc termic a cilindrilor de laminor din Fgn si structura indefinita). Contract nr. 46-5-2A/1986, IPB-C.V.V. Calan.

- 25. I. Riposan**, M. Chisamera. Asistenta tehnica la realizarea elaborarii fontelor cu consum redus de fonta bruta. Contract nr. 36-6-4A/1987, IPB- ICSIT-PSCM Bucuresti.
- 26. I. Riposan**, M. Chisamera. Modificarea fontelor destinate turnarii cilindrilor de laminor (Cercetari privind comportarea la uzare si soc termic a cilindrilor de laminor din fonta cu grafit nodular si structura indefinita). Contract nr.46-9-2B/1987, IPB-C.S.V. Calan.
- 27. I. Riposan**, M. Chisamera. Tehnologie de turnare a pieselor din Fgv in conditiile Intreprinderii UNIO Satu Mare (Studiu documentar, experimentari si proiectare tehnologie). Contract nr. 36-7-2/1987, IPB-UNIO Satu Mare.
- 28. I. Riposan**, M. Chisamera. Cercetari privind realizarea din Fgn Bainitica a arborilor cotiti pentru solicitari ridicate. Contract nr. 36-7-14/1987. IPB-ICSITA Pitesti.
- 29. I. Riposan**, M. Chisamera. Asistenta tehnica la turnarea pieselor din Fgv (Tehnologie de turnare a pieselor din Fgv in conditiile Intr.UNIO Satu Mare). Contract nr. 36-7-2A/1988, IPB-UNIO Satu Mare.
- 30. I. Riposan**, M. Chisamera. Experimentari de laborator si semiindustriale in vederea producerii arborilor cotiti din Fgn Bainitica. Contract nr. 36-7-14A/1988, IPB-ICSITA Pitesti.
- 31. I. Riposan**, M. Chisamera. Cercetari privind asimilarea Fgn Perlitice Antifricțiune si a celor Bainitice in fabricatia utilajului metalurgic de inalta performanta (Studiu sinteza-Exp.laborator-proiectare tehnologie). Contract nr.36-9-1/1989, IPB-CCP Aiud.
- 32. I. Riposan**, M. Chisamera. Cercetari in vederea imbunatatirii fontei pentru lingotiere si cilindrii in scopul cresterii durabilitatii acestora in exploatare (Studiu documentar privind calitatea fontelor pentru lingotiere si cilindrii de laminor). Contract nr. 36-9-12/1989, IPB-C.S.V. Calan.
- 33. I. Riposan**, M. Chisamera. Studiul structural al fontelor turnate in Blocul motor Dacia si analiza caracteristicilor structurale si comportarii arborilor cotiti produsii din Fgn bainitica (Cercetari privind realizarea din Fgn Bainitica a arborilor cotiti pentru solicitari ridicate). Contract nr. 36-7-14B/1989. IPB-ISCITA Pitesti
- 34. I. Riposan**, M. Chisamera. Experimentari privind imbunatatirea tehnologiei de productie a fontelor pentru lingotiere si cilindrii de laminor. Definitivarea tehnologiei (Cercetari in vederea imbunatatirii calitatii fontei pentru lingotiere si cilindrii in scopul cresterii durabilitatii acestora in exploatare). Contract nr. 36-9-12A/1990, IPB-C.S.V. Calan.
- 35. I. Riposan**, M. Chisamera. Experimentari industriale si definitivare tehnologii in vederea producerii Fgn antifricțiune si a celor bainitice (Cercetari privind asimilarea la I.M.Aiud a Fgn Antifricțiune si a celor Bainitice). Contract nr. 36-9-1A/1990, IPB- IPB-I.M. Aiud.
- 36. I. Riposan**, M. Chisamera. Fonte modificate pentru piese de performanta, asimilarea tehnologiilor de fabricatie a Fgn cu caracteristici fizico-mecanice superioare. Contract nr. 58-91-2/1991, IPB-Intr.Metalurgica SA Aiud.
- 37. I. Riposan**, M. Chisamera, S. Stan. Cercetari privind realizarea prin turnare a materialelor compozite cu matrice metalica particulate cu adaosuri ceramice de fabricatie indigena. Contract nr. 58-92-14/1992. IPB-Min.Invat. si Stiintei.
- 38. I. Riposan**, M. Chisamera. Cercetari privind posibilitatea cresterii calitatii si reducerii costurilor de productie la fontele elaborate in cubilou si cuptoare electrice utilizand carbura de siliciu. Contract nr. 58-92-3/1992, IPB-Intr.Metalurgica Aiud.
- 39. I. Riposan**, M. Chisamera. Asistenta tehnica la utilizarea in turnatoriile de fonta din Romania a carburii de siliciu metalurgice livrata de S.C.CASIROM-SA Turda. Contract nr. 58-92-6/1992, IPB-CASIROM Turda.
- 40. I. Riposan**, M. Chisamera. Cercetari privind imbunatatirea tehnologiei de turnare centrifugala a unor piese din fonta de inalta performanta. Contract nr. 58-93-6/1993, UPB-Metalurgica Aiud
- 41. I. Riposan**, M. Chisamera. Fonte cu grafit coral. Contract B37-629, Min. Inv.-CNCSU.
- 42. I. Riposan**, M. Chisamera, S. Stan. Cercetari privind recuperarea si valorificarea in turnatoriile de fonta a deseurilor pulverulente rezultate din concasarea feroaliajelor si modifcatorilor pe baza de siliciu. Contract UPB-MI/CNRM, 258-12-60/B2, 1994-1996.
- 43. I. Riposan**, M. Chisamera, S. Stan. Cercetari privind defosforarea in afara agregatului de elaborare in vederea extinderii recuperarii deseurilor feroase pentru producerea fontelor. Contract UPB-MCT, 619/1995-1997

44. I. Riposan, M. Chisamera, S. Stan. Cercetari privind recuperarea elementelor de aliere din zgura la elaborarea fontelor in cuptoare cu inductie. Contract UPB-MCT, 511/B7/1995-1997.

45. I. Riposan, M. Chisamera, S. Stan. Cercetari privind recuperarea si valorificarea deseurilor de aliaje neferoase cu grad ridicat de impurificare. Contract UPB-MI/CNRM, 1996.

46. I. Riposan, M. Chisamera, S. Stan. Cercetari privind recuperarea si valorificarea eficienta in turnatorii a deseurilor marunte rezultate de la prelucrarea alamei. Contract Tema A1, A3, 619B, 1997-1999, UPB-MI/CNRM.

47. I. Riposan, M. Chisamera, S. Stan. Strategii metalurgice mondiale in reciclarea automobilelor. Contract 1999-2001, UPB-MI/CNRM

48. I. Riposan, M. Chisamera, S. Stan. Cercetari pentru obtinerea unui agent desulfurant pe baza de carbura de calciu si a tehnicilor de desulfurare performante pentru turnatoriile de fonta. Proiect RELANSIN 749/4728/2000-2002

49. I. Riposan, M. Chisamera, S. Stan. PN-II-IN-CI-2012-1-0067, *Optimizarea procesului de prelevare a probelor de fonta in vederea analizei spectrale*, SC SPECTRO SERVICE ROMANIA SRL / UNIVERSITATEA POLITEHNICA DIN BUCURESTI - CENTRUL DE CERCETARE SI EXPERTIZARE MATERIALE SPECIALE

F.2. Contracte de cercetare la care a existat calitatea de participant

1. S. Buzila, L. Sofroni, I. Riposan. Cercetari privind imbunatatirea formelor turnate din fonta pentru fabricarea obiectelor din sticla (studiu documentar). Contract nr. 7/1970, IPB-CIACUT Bucuresti.

2. L. Sofroni, I. Chira, I. Riposan. Cercetari privind stabilirea tehnologiei de fabricare a cilindrilor de laminor de tip Adamit (Studiu documentar). Contract nr. 2/1970, IPB-C.S. Hunedoara.

3. L. Sofroni, C. Cernat, I. Riposan. Cercetari privind imbunatatirea tehnologiei de fabricare a cilindrilor pentru tabla subtire. Contract 1970, IPB-Uzina Otelul Rosu.

4. S. Buzila, L. Sofroni, I. Riposan. Realizarea prin turnare a formelor din fonta cu grafit nodular pentru fabricarea obiectelor din sticla. Contract nr. 7A/1971, IPB-CIACUT Bucuresti.

5. L. Sofroni, I. Riposan, I. Chira, V. Brabie. Cercetari privind imbunatatirea calitatii cilindrilor de laminor semiduri turnati din fonta cu grafit nodular pentru laminoarele 650 mm de la CS Hunedoara. Contract nr.1/1971, CTF-IPB-C.S. Hunedoara.

6. L. Sofroni, I. Chira, I. Riposan. Turnarea cilindrilor de laminor din otel tip Adamit. Contract nr. 2A/1971, IPB-C.S. Hunedoara.

7. S. Buzila, L. Sofroni, I. Riposan. Testarea formelor turnate din Fgn si Fgv la fabricarea obiectelor din sticla. Contract nr. 7B/1971, IPB-CIACUT Bucuresti.

8. L. Sofroni, I. Chira, I. Riposan. Definitivarea tehnologiei de turnare-tratament termic a cilindrilor de laminor de tip Adamit. Contract nr. 2B/1972, IPB-C.S. Hunedoara.

9. M. Chisamera, I. Riposan. Imbunatatirea calitatii pieselor turnate din fonta la IM Alba Iulia (lingotiere, poduri de turnare, masini unelte) in vederea reducerii consumului specific de utilaj metalurgic cu 50% si a aderentelor pieselor turnate (Experimentari de laborator si asistenta tehnica la reproiectarea lingotierelor si podurilor de turnare). Contract nr. 46-4-4/1984, IPB-Intr.Mec.Alba Iulia.

10. M. Chisamera, I. Riposan. Asistenta tehnica la modificarea fontelor cenusii din domeniul eutectic pentru masini unelte (imbunatatirea calitatii pieselor turnate din fonta la IM Alba Iulia). Contract nr. 46-4-4A/1985, IPB-Intr.Mec.Alba Iulia.

11. M. Chisamera, I. Riposan. Asimilarea Fgn la producerea lingotierelor destinate turnarii lingourilor pentru utilaj energetic si CNE (Caracteristici specifice Fgv, experimentari de laborator si industriale). Contract nr. 37-6-2/1986, IPB-IMGB.

12. M. Chisamera, I. Riposan. Asistenta tehnica la turnarea lingotierelor din Fgv pentru utilajul energetic si CNE (Asimilarea Fgv la producerea lingotierelor destinate turnarii lingourilor pentru utilaj energetic si CNE). Contract nr. 37-6-2A/1987, IPB-IMGB.

13. M. Chisamera, I. Riposan. Tehnologia de obtinere a pieselor din Fgn, prin modificarea fontelor in flux continuu. Contract nr. 36-9-2/1989, IPB-IPT Bailesti.

14. M. Chisamera, I. Riposan. Fonte speciale de inalta performanta (Fonta Bainitica). Contract nr. 58-91-8/1991, IPB-Min.Invat. si Stiintei.

- 15.** M. Chisamera, **I. Riposan**. Studiul cristalizarii fontelor, a formelor optime ale separarilor de grafit, si a masei metalice de baza in vederea cresterii caracteristicilor si a largirii domeniilor de utilizare. Contract nr. 58-92-4/1992, IPB-INTEC Bucuresti.
- 16.** M. Chisamera, **I. Riposan**. Influenta conditiilor de elaborare asupra caracteristicilor fizico-mecanice ale fontelor speciale cu diferite forme de grafit (Fonte speciale de inalta performanta). Contract nr. 58-91-8A/1992, IPB-Min.Inv.si Stiintei.
- 17.** M. Chisamera, **I. Riposan**, S. Stan. Asistenta tehnica la perfectionarea constructiva si functionala a cuptoarelor rotative cu flacara utilizate la elaborarea fontelor la SC Metalurgica SA Aiud. Contract UPB-Metalurgica Aiud, 58-93-25, 1993-1995.
- 18.** M. Chisamera, **I. Riposan**, S. Stan. Studii si cercetari privind retopirea ultrarapida in strat superficial a pieselor turnate din fonte. Contract UPB-Min. Inv., 58-93-20, 1993-1995.
- 19.** M. Chisamera, **I. Riposan**, S. Stan. Cercetari privind demanganizarea fontelor in vederea largirii bazei de fier vechi posibil de utilizat la producerea fontelor cu grafit nodular. Contract UPB-MI/CNRM, 258-12-60/5, 58-94-5, 1994-1996.
- 20.** M. Chisamera, **I. Riposan**, S. Stan. Cercetari privind obtinerea fontelor cu grafit nodular cu plasticitate si tenacitate pentru destinatii speciale. Contract UPB-CNCSU, 1090, 7001-27, 1997-1999.
- 21.** M. Chisamera, **I. Riposan**, S. Stan. Valorificarea superioara a deseurilor de tabla de otel cositorita la producerea fontelor de inalta rezistenta. Contract 1999-2001, UPB- MI/CNRM, A1-619/1996, 1996-2001
- 22.** M. Chisamera, **I. Riposan**, S. Stan. Valorificarea superioara a deseurilor de materiale carbonice indigene la elaborarea fontelor de calitate. Proiect RELANSIN, 1436/2001, 2001-2003.