

Curriculum Vitae Europass



Informații personale

Nume / Prenume **Riposan Iulian**

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Naționalitate(-tăți) Romana

Data nașterii 17/02/1948

Sex Bărbătesc

Loc de muncă vizat / Domeniu ocupațional

Profesor universitar, Stiinta si ingineria materialelor

Experiența profesională

Perioada 1970 → Prezent

Funcția sau postul ocupat Profesor Universitar-1993-prezent; Conferentiar Universitar 1990-1993; Sef Lucrari universitar-1976-1990;
Asistent universitar-1970-1976

Activități si responsabilități principale Cursuri universitare privind ingineria materialelor, indeosebi procesate prin turnare.
Activitati de cercetare, consultanta si asistenta tehnica in ingineria materialelor.
Sef de Catedra Procesarea Materialelor in perioada 1992-2008.
Secretar Stiintific / Cancelar al Senatului Univ. POLITEHNICA București, 2004 – prezent.
Vicepreședinte Comisia Ingeria Materialelor-CNATDCU [2011-2016]

Numele și adresa angajatorului Universitatea POLITEHNICA Bucuresti
Spl. Independentei 313, 060042 Bucuresti (Romania)

Tipul activității sau sectorul de activitate Invatamant superior

Educație și formare

Perioada 1972 - 22/12/1978

Calificarea/diploma obținută Diploma de Doctor Inginer

Disciplinele principale studiate/competențele profesionale dobândite Bazele procesarii materialelor metalice prin turnare; Elaborarea si solidificarea materialelor metalice;
Modificarea fontelor

Numele și tipul instituției de învățământ/furnizorului de formare Institutul Politehnic "Gh. Gheorghiu-Dej" din Bucuresti (Invatamant superior)
Spl. Independentei 313, 060042 Bucuresti (Romania)

Perioada 1965 - 1970

Calificarea/diploma obținută Diploma de Inginer

Disciplinele principale studiate/competențele profesionale dobândite Elaborarea si turnarea fontei, otelului si a metalelor neferoase; Procesarea pieselor metalice prin turnare

Numele și tipul instituției de învățământ/furnizorului de formare Institutul Politehnic "Gheorghe Gheorghiu-Dej" din Bucuresti (Invatamant superior)
Polizu 1-7, 011061 Bucuresti (Romania)

Aptitudini și competențe personale

Limba maternă

Romana

Limbi străine cunoscute

Autoevaluare

Nivel european (*)

Engleza

Franceză

Rusă

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral			
B1	Utilizator independent	B2	Utilizator independent	B1	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent
B1	Utilizator independent	A2	Utilizator elementar	A1	Utilizator elementar	A1	Utilizator elementar	A1	Utilizator elementar
A1	Utilizator elementar	B1	Utilizator independent	A1	Utilizator elementar	A1	Utilizator elementar	B1	Utilizator independent

(*) [Cadrlui european comun de referință pentru limbi](#)

Competențe și abilități sociale

Activitati indelungate in comunitatile studentesti, de cadre didactice si specialisti din productie

Competențe și aptitudini organizatorice

Experienta in organizarea activitatii universitare, activand ca Sef Catedra (16 ani), Secretar Stiintific / Cancelar Facultate (2 ani) si Universitate (2004 - prezent);

Experienta in organizarea activitatii societatii profesionale a producatorilor de piese turnate din Romania (Presedinte-1997 - 2014)

Competențe și aptitudini tehnice

Activitate indelungata in dezvoltarea de noi materiale si tehnologii in intreprinderile producatoare de piese turnate din Romania si alte tari (SUA, Franta, Ungaria, Egypt, etc). 35 Brevete de inventie. 100 lucrări indexate in ISI Web of Knowledge; peste 300 lucrari tehnice publicate (peste 150 in alte 32 de tari)

Competențe și aptitudini de utilizare a calculatorului

Nivel mediu

Alte competențe și aptitudini

Activitati de perfectionare a specialistilor din ingineria materialelor, indeosebi din fabricatia de piese turnate, din Romania si alte tari.

Permis de conducere

B

Informații suplimentare

***Peste 300 lucrari publicate, peste 150 lucrari in alte 32 de tari** precum Germania, Anglia, SUA, Franta, Japonia, Elvetia, Spania, India, Brazilia, Australia, China, Norvegia, Olanda, Korea, Polonia, Turcia, Egipt, Canada, Portugalia, Rep.Ceha, Ungaria, Rusia, Bulgaria, Slovacia, Suedia, Mexic, Slovenia, Belgia, Croatia, Serbia, Argentina, Africa de Sud.

***100 Lucrari indexate in ISI-Web of Knowledge: 65 Lucrari publicate cotate/indexate in ISI-Web of Science;**

***35 Brevete de Inventie** (30-Indexate in ISI-Web of KNOWLEDGE - Derwent Innovation Index).

***235 Lucrari indexate: 65 ISI-Web of Science si 170 in alte Baze de Date Internationale [BDI]**

***Indexari BDI:** 140-SCOPUS; 87-Metals Abstracts CSA/METADEX; 55-Chemical Abstracts; 28-BCIRA (British Cast Iron Res. Assoc.) Abstracts; 32-COMPENDEX; 15-INSPEC; 11-AFS Library Abstracts.

***15 Lucrari Traduse din limba romana in Materials Information Translation Service (UK, MITS-BISI) si distribuite international.**

***12 Traduse si publicate in extenso de catre Express Informatia (URSS).**

***3 Monografii originale** publicate in Ed.Tehnica reprezentand trei tipuri de fonte: Fonte cu grafit vermicular, Fgv (1984), Fonte Albe rezistente la uzare (1987) si Fonte Bainitice (1989) recenzate in mai multe tari (Fgv-prima monografie pe plan mondial); Cursuri Fonte (1985) si Otel (1994).

***Capit. Fonte, Tratat de Stiinta si Ingin. Materialelor Metalice**, Vol. 3 si 4, ASTR-AGIR, 2009, 2010.

***22 Lucrari au reprezentat Romania la Congresele Mondiale/Forumurile Tehnice de Turnarea**

Metalelor organizate periodic de catre **WFO-World Foundry Organization** (1974 - 2014) (Romania face parte din WFO), respectiv 1974 [Belgium], 1975 [Portugal], 1976 [Romania], 1979 [Spain], 1981 [Bulgaria], 1984 [Portugal], 1985 [Australia], 1986 [Cehoslovacia], 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], 2017 [Africa de Sud]

***16 Lucrari prezentate la ultimele 10 (din 11) Simp. Internationale privind Fontele [inceput in 1964, Detroit, USA]:** 1974-Elvetia, 1984-Suedia, 1989-Japonia, 1994-Franta, 1998-SUA, 2002-Spania, 2006-China; 2010-Egipt, 2014-Argentina; 2017-Suedia; Membru in Comitetul International de organizare (din 1998).

***35 Lucrari la Congresele American Foundry Society (AFS) si Ductile Iron Society (DIS), SUA / Canada / Mexic: (1) 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-MN].

(2) „Keith Millis Ductile Iron Symposium”, USA [5 years]: 1998 – Hilton Head Island, SC [50 years-DI]; 2003 – Hilton Head Island, SC; 2008 – Las Vegas, NV; 2013-Nashville, TN; **(3) 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 [inceput 2009]:** 2009 - Paris, France; 2010 – Jonkoping, Sweden; 2011 – Clausthal, Germany; 2012 – Durango / Bilbao, Spain; 2013-Kristiansand, Norway; 2014-Nancy, France; 2015-Gent, Belgium; 2017 –Verona, Italia [conferinta europeana anuala in domeniul fontelor turnate in piese].

***Alte Congrese Internationale: (a) AFC – Asian Foundry Congress** 1999 [Calcutta – India], 2008 [Nagoya – Japan]; **(b) 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]; **(c) ALTELE:** II Vedeka Conf. s Mezinardni Ucasti, Brno, Cehoslovacia, 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, Slovacia, 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; Intern. Foundrymen Conference, Opatija, Croatia, 2013, 2014, 2016; Intern. Cast Iron Symposium, Sisak, Croatia, 2013.

***Premiul "Aurel Vlaicu" al Academiei Romane, 1985, Contributii Fonta cu Grafite Vermicular [Fgv]**

***Premiul I (1989) acordat de CNST**, faza nationala a concursului de creatie stiintifica si tehnica

***Premiile II si III (1989) Min. Invatamantului-Tehnologiei originale brevetate.**

***10 Premii la Saloanele Nationale de Inventii (1986-1998).**

***Diploma de Onoare UPB pentru activitate inventii (1988).**

****PROFESOR ONORIFIC”, Universitatea „Dunărea de Jos” Galati (2012)**

***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, (Fgn si Fgv).

***THE BEST OPERATING PAPER AWARD-106th American Foundry Society Congr.**, SUA 2002, (Fgv).

***THE BEST PAPER AWARD – 107th American Foundry Society Congress**, SUA 2003, (Desulfurare).

***Conferinte Tehnice:** SUA, Franta, Japonia, China, Egipt, Rusia, India, Norvegia (Universitati, Institute de Cercetare, Producatori de Piese Turnate)

***Colaborari Internationale:** 1998-2010, ELKEM, Norvegia [Lider mondial al produc. de modificatori, Cercetari fundamentale si aplicative]; 2008, METALKRAFT AS din Norvegia; 1997-2012-CMRDI-Central Metal. Res. and Develop. Institute din Egipt; din 2009-Cast Iron European Team; ASI International, SUA.

***Asociatii si Societati Profesionale:** AFS-American Foundry Society (membru international); ASM International-The Materials Information Society (membru); Cast Iron European Team (membru); Asociatia Tehnica de Turnatorie din Romania (ATTR)-Presedinte [1997-2014]; Societatea Romana de Metalurgie (SRM-membru Consiliu Conducere); UNIROMSIDER-Uniunea Prod. de Otel din Romania (M. Cons.); Societatea Invent. din Romania.

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

REALIZARI STIINTIFICE REPREZENTATIVE

I. Mecanismul germinarii grafitului lamelar in fontele tehnice, recunoscut si aplicat pe plan mondial in fabricatia de piese turnate

*A fost stabilit un model de formare a grafitului in fontele cenusii in trei trepte, bazat pe formarea initiala a unor micro-incluziuni cu baza oxidica (predominant sub 2 um), ce contribuie la germinarea unor sulfuri complexe de mangan de tipul (Mn,X)S cu dimensiuni de regula pana la 10 um (predominant sub 5 um), care vor juca rolul de germeni de grafitizare majoritari.

*Au fost definiti factorii de influenta, rolul complex al compozitiei chimice, posibilitatile de dirijare si control al formarii grafitului la grade scazute de subracire eutectica, cu preintampinarea aparitiei grafitului de subracire si a carburilor libere.

*Studiile bazate pe analiza termica avansata la solidificare si microscopia electronica, analizele structurale si ale proprietatilor mecanice si de exploatare au condus la validarea practica a modelului propus, la diferiti producatori de piese turnate din fonta din mai multe tari.

*De asemenea au fost definite trei grupe de elemente ce contribuie la acest proces ca si trei faze tehnologice importante in special la topirea fontelor in cuptoare electrice.

*Rezultatele obtinute au fost prezentate/publicate si validate in reviste reprezentative (International Journal of Cast Metal Research, Materials Science and Technology, Journal of Materials Engineering and Performance, Advanced Materials Research, ISIJ International, International Journal of Metalcasting) precum si la importante congrese si conferinte internationale, in tari precum SUA, Franta, Spania, Japonia, Germania, Turcia, India, China, Egipt, Norvegia. Dr. R. Gundlach, in The Honorary Lecture-AFS Metalcasting Congress, 2008-SUA, Cast Iron Division, sustine importanta practica a Mn si S in fontele cenusii pe baza rezultatelor raportate de colectivul I. Riposan si altii (Romania si Norvegia), indeseobi la AFS Cast Iron Inoculation International Conference, 2005, SUA. Lucrarea invitata la AFS Cast Iron Melting International Conference (2009-SUA) a condus la definirea conducerii elaborarii fontelor in cuptoarele electrice cu inductie in trei trepte tehnologice. O lucrare prezentata la Asian Foundry Congress (2008, Japonia) a definit rolul Al, S si Zr ca elemente cheie in germinarea grafitului lamelar.

*Preconditionarea fontelor cenusii cu elementele active Al si Zr a devenit o tehnologie internationala, in urma prezentarii/publicarii rezultatelor obtinute in Germania, SUA, Anglia, India, China, Egipt, Anglia, in timp ce produsul Preseed realizat de firma ELKEM-Norvegia, cel mai performant material de preconditionare.

***Principalul suport al acordarii American Foundry Society [AFS] – AWARD OF SCIENTIFIC MERIT - 2012 [cea mai importanta distinctie stiintifica acordata de catre American Foundry Society]**

II. Fonta cu grafit vermicular / compact

-studiile referitoare la formarea si cresterea celulelor eutectice ale Fgv/c, in diferite conditii de cristalizare, identificandu-se mai multe posibilitati de aparitie a acestora;

-stabilirea mai multor clase de compactitate ale grafitului vermicular, caracterizarea acestora prin factori de forma si evidentierea unor corelatii intre acestea.

-evidentierea conditiilor de aparitie a anomaliiilor structurale la Fgv/c, indeosebi anomalia cementitei si demodificarea grafitului sub actiunea formei de turnare;

-caracterizarea sensibilitatii acestei fonte la formarea feritei la transformarea eutectoida si a posibilitatilor de promovare a perlitei, prin intermediul componentei modifcatorilor, a alierii si tratamentului termic;

-definirea unor proprietati tehnologice si de exploatare ale Fgv/c, in comparatie cu Fc si Fgn, respectiv a prelucrabilitatii, rezistentei la oxidare si soc termic, a comportarii la uzare si coroziune, la presiuni ridicate, identificandu-se noi domenii de utilizare.

-caracterizarea proprietatilor fontelor cu valori diferite ale nodularitatii grafitului, ceea ce permite valorificarea intregului domeniu intre 100% Gv si 100% Gn, cu economii importante de metal;

-realizarea unor tehnologii originale de fabricare a Fgv/c, utilizabile in conditiile specifice din tara noastra, respectiv in cazul unor turnatorii ce dispun de cubilouri si cuptoare electrice, ce elaboreaza fonte cu sulf ridicat (peste 0,05%S), precum si pentru intreprinderile care produc si piese din Fgn, caz in care recirculatele din productia de Fgv au actiune nociva;

- obtinerea Fgv prin adausul de S dupa tratamentul cu Mg [*aplicata in mai multe turnatorii americane*]

- Activitate recunoscuta prin THE BEST PAPER AWARD - 63rd World Foundry

Congress, 1998, (Fgn si Fgv) [lucrare recenzata in majoritatea publicatiilor de turnatorie din lume] si THE BEST OPERATING PAPER AWARD-106th AFS Casting Congress, SUA 2002.

- Prima carte/monografie referitoare la Fonta cu grafit vermicular pe plan mondial [Ed. Tehnica, Bucuresti, 1984]

III. Alte contributii in domeniul fontelor

-asimilarea in tara si extinderea la mai multe intreprinderi a tehnologiei de modificare a fontei in bazin;
-stabilirea particularitatilor procesului de uzare a fontelor albe si pestrite, turnate in cilindri de laminor si a factorilor de influenta; caracteristicile grafitului, a cimentitei si masei metalice de baza, influenta oxisulfurilor.
-stabilirea mecanismului aparitiei si dezvoltarii fisurilor la solicitarea la soc termic a fontelor cu grafit lamelar, vermicular si nodular, a fontelor albe si pestrite, aliate si nealiate, evidentierea factorilor de influenta;
-evidentierea particularitatilor procesului de oxidare a Fgv, in raport cu Fgn si Fgl;
-cercetari in domeniul tehnologiei de modificare in forma de turnare, in vederea obtinerii fontelor cu grafit lamelar modificat, vermicular si nodular; cercetari in domeniul modificarii si alierii superficiale a fontelor, a turnarii bimetalice otel-fonta si Fc-Fgn; cercetari in domeniul utilizarii deseurilor de anozii ca inlocuitori partiali ai coxsului de turnatorie; -cercetari in domeniul cristalizarii fontelor la solidificarea in forme vidate; utilizarea tehnicii vidului la modificarea in oala si forma a fontelor; -stabilirea particularitatilor arderii coxsului in cubilou cu alimentare cu aer in regim optimizat, in vederea utilizarii coxsului marunt;-evidentierea influentei structurii in stare turnata asupra comportarii la tratament termic de calire izoterma si proprietatile fontelor bainito-austenitice cu grafit nodular, vermicular si coral.-controlul solidificarii fontelor cu grafit in piesele cu pereti grosi, cu evitarea formarii "chunky-graphite";-intensificarea modificarii grafitizante, in cazul fontelor cenusii nemagnetice, inalt aliate Ni-Mn;-utilizarea azotului la modificarea si microalierarea fontelor albe si pestrite, nealiate si aliate Ni-Cr-Mo;-microalierarea si modificarea complexa a fontelor nealiate si slab-mediu aliate Ni-Cr, tip NiHard;
- realizarea unor materiale desulfurante pe baza de carbura de calciu romanesti de inalta eficienta [THE BEST PAPER AWARD – 107th American Foundry Congress, SUA , 2003].

IV. Inventica

Activitatea de cercetare stiintifica originala a fost protejata prin brevete de inventii acordate de OSIM. Au fost obtinute **35 brevete de inventii, 30 fiind indexate in Derwent Innovation Index-ISI Web of Knowledge.**

In marea lor majoritate, aceste tehnologii originale brevetate au fost aplicate in productie:

Tehnologiile originale realizate se refera la obtinerea **fontelor cenusii de inalta rezistenta** (hipoeutectice si eutectice), la **fontele cu grafit nodular** (Fgn Bainitice, brichete modificatoare cu Mg, modificatori cu actiune speciala, inoculare cu sulf, tehnologii de modificare si postmodificare in forma), **fonte cu grafit vermicular** (modificatori MODIVER, Fgv refractara, Fgv pentru piese cu pereti subtiri, controlul nodularitatii grafitului cu ajutorul sulfului, Fgv piese mari), **fonte albe si pestrite** (prealaje complexe cu actiune de modificare-microalierare). Dintre **tehnologiile originale de tratare complexa a fontelor**, se pot evidentia cele de desulfurare-dezoxidare-modificare-postmodificare in flux continuu, utilizarea alicelor metalice active, cu actiune modificatoare, solutii pentru intensificarea modificarii si alierii aliajelor in forma de turnare. Privind **elaborarea aliajelor de turnatorie**, a fost realizata perfectionarea constructiva si tehnologica a cubiloului, in vederea utilizarii coxsului indigen, conducand la reproiectarea majoritatii cubilourilor din Romania.

Tot in domeniul elaborarii fontelor, au fost realizate **sorturi originale de carbura de siliciu metalurgica** utilizate cu bune rezultate in cuptoare electrice si in cubilou, in peste 20 de turnatorii din tara. In acest mod, au fost inlocuite materiale deficitare (ferosiliciu si cocs de petrol de inalta calitate) micșorandu-se continutul de sulf al fontelor si rebutul pieselor cu 30...50%.

In anii 1986, 1987, 1988 si 1989 s-a participat la **Salioanele Nationale de Inventii** de la Satu Mare, Bacau, Tg.Mures, Iasi, Bihor, Resita, Prahova, Neamt, Sibiu, Constanta, Arad, Targoviste, Botosani unde au fost prezentate panouri cu 19 inventii, referate tehnico-stiintifice, interventii in dezbateri etc. La aceste manifestari tehnico-stiintifice au fost obtinute **8 premii** pentru inventiile prezentate, 11 inventii fiind selectate pentru aplicarea generalizata la scara nationala.

V. Preocupari actuale in domeniul fontelor

*Evaluarea crizei mondiale in domeniul pamanturilor rare si a impactului sau in modificarea fontelor.

Identificarea de solutii in acest sens, pentru inlocuirea pamanturilor rare.

*Solutii practice in controlul si dirijarea solidificarii fontelor in conditii critice in ceea ce priveste compozitia chimica, starea fontei lichide, viteze mari de racire, specifice mutatiilor actuale din turnatoriile de fonta pe plan mondial: trecerea masiva la topirea electrica, cu grade mari de supraincalzire, in conditiile disparitiei fontei brute din incarcatura, a unor continuturi excesiv de mici de sulf, a cresterii ponderii pieselor turnate cu pereti subtiri (< 5mm) etc.

*Cercetarea si transpunerea in practica industriala a unor noi prelucrari metalurgice ale fontei in stare lichida, precum preconditionarea si intarirea inoculării prin adausuri active, indeosebi in situatii critice.

-Mecanismul germinării grafitului la diferite morfologii ale acestuia.

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.1 – Carti publicate in strainatate

1. **I. Riposan**, T. Skaland. Modification and Inoculation of Cast Iron [Capit. 1A-3.1.5], *ASM-American Society of Materials Handbook*, Volume 1A: Cast Irons, 2017.

B.2.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/METADEX 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 tipografia locale.

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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.

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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.

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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].

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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 thermostoikosti ciugunov a rezilicinoi 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.

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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.

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- 12. M. Chisamera, I. Riposan**, S. Stan, D. White, G. Grasmó. 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
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- 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
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- 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. Grasmó, 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
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29. S. Stan, M. Chisamera, **I. Riposan**, N. Ivan, M. Barstow. Iron Powder Treated Gray Irons - Critical Shape Characteristics for Graphite Nuclei. *Journal of Materials Engineering and Performances, Corresponding Author* [Accepted 08.11.2011]; DOI: 10.1007/s11665-011-0081-3; Online First: 02.12.2011; Volume 21, Issue 8 (2012), Page 1793-1799. **Accession Number:** WOS:000306549400028 ISSN 1059-9495 [ISI - Web of Science/Science Citation Index Expanded].

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I.1.2. ISI Proceedings [ISI Conference 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 zlepseni povrchovo jakosti litinovyh a acelovyh odlivkov adlevanyh de syrovych forem. *Slevarenstvi* (RSC), 1975, Nr.5, p.191-196; **b)** Uglerodistie dobovki dlia ulucisenia cacestva poverhnosti ciugunnih i stalnih otlivok, poluciaemih v serih 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)** Eine 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 ideas concernant l'obtention des fonts truitees au graphite spheroidal resistant a l'usure et au choc thermique, *41-e Congres Internatinal de Fonderie*, Liege, Belgique, 1974, Paper 15 (Lucrare Oficiala Romania); **c)** Polucenie visokoprocinoivo 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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6. **I. Riposan**, L. Sofroni, I. Marginean, G. Muresan. **a)** Fontes a graphite lamellaire et spheroidal obtenus par modification en moule. *Hommes et Fonderie* (Franta), Mai 1977, p. 11-17 ; *43-eme Congres International de Fonderie*, Bucharest, 1976, Paper 31 ; **b)** Ciuguna s plastinciatim ili sarovidnim grafitam poluciaemai modifitirovaniam v forme. *Express Informatia*, TOLP, 1977, nr. 20, pp. 20-27. **Recenzii/Indexari:** Giesserei, nr. 6, 1977, p. 138; nr. 10, 1977, p. 70; Chemical Abstracts, 47056a, 89, 1978; SCOPUS.

7. **I. Riposan**, E. Ciobanu. Einfluss des Stickstoffs auf die Temperaturwechselbestandigkeit von legierten weissen Gusseisen. *Giesserei Praxis* (RFG), nr. 10, 1978, p. 58-64. **Recenzii/Indexari:** Chemical Abstracts (SUA), 218740a, 89, 1978; Metals Abstracts CSA/METADEX 1979-31-1080; Giesserei Praxis (RFG), nr. 23, 1978, p. 32.

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16. **I. Riposan**, M. Chisamera. Der Einfluss der Graphitverteilung auf das Korrosionsverhalten von unlegiertem und siliziumlegiertem Gusseisen in Sauren und Basen. *Giessereitechnik (RDG)*, 1988, nr. 3, p. 86-91. **Recenzii/Indexari:** *Giesserei (RFG)*, 1989, p. 17 si p. 30; *Metals Abstracts CSA/METADEX 1988-35-2656*; *Chemical Abstracts (SUA)*, 41531m, 109, 1988.

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18. **I. Riposan**. Oxidations und verschleissbeständiges siliziummittel legiertes Gusseisen mit Vermiculargraphit. *Giessereitechnik (RDG)*, 1989, nr. 10, p. 315-319. **Recenzii/Indexari:** *Metals Abstracts CSA/METADEX 1990-31-1609*; *Chemical Abstracts (SUA)*, 123013v, 112, 1990.

19. **I. Riposan**, M. Chisamera, L. Sofroni. The Use of Compact Graphite Cast Irons Returns Containing Titanium and Aluminium in production of Nodular and Compact Irons, is it a problem? *Cast Metals (Anglia)*, vol. 2, 1990, nr. 4, p. 207-213. **Recenzii/Indexari:** *Metals Abstracts CSA/METADEX 1990-51-1376*, SCOPUS.

20. **I. Riposan**, M. Chisamera. Einfluss der Graphitbildung bei Bainitchem, Gusseisen mit Kugelgraphit. *Giesserei Praxis (Germania)*, 1990, nr. 12, p. 192-196. **Recenzii/Indexari:** *Metals Abstracts CSA/METADEX 1990-31-4247*; *Chemical Abstracts (SUA)*, 136155p, 113, 1990.

21. **I. Riposan**, M. Chisamera. a) Herstellung von Gusseisen mit Vermiculargraphit aus Magnesiumbehandeltem Gusseisen durch zusatz von Schwefel. *Giesserei Praxis (Germania)*, 1991, nr. 9/10, p. 155-162; b) *Casting, Forging and Heat Treatment (Japan)*, nr. 547, 1993, p. 17-23. **Recenzii/Indexari:** SCOPUS

22. **I. Riposan**, M. Chisamera. Bainitisches Gusseisen mit Vermiculargraphite (GGV-B). *Giesserei Praxis (Germania)*, 1992, nr. 8, p. 131-137.

23. **I. Riposan**, M. Chisamera, V. Pintea. The utility of the metallurgical silicon carbide for cast iron and steel production. *Kohaszat/Ontode (Ungaria)*, Sept. 1993, 126 (9), pp. 328-330. [ISSN 0005-5670]. **Recenzii/Indexari:** *Metals Abstracts CSA/METADEX 1995-51-0312*, SCOPUS.

24. **I. Riposan**, M. Chisamera, L. Sofroni. Divided Blast Cupola in order to use Lower Sized Coke. *Fonderie Fondateur d'aujourd'hui (Franta)*, No. 196, 2000, pp. 13-28. *International Cupola Conference*, Strasbourg-France, 16-17 March, 2000; **Recenzii/Indexari:** SCOPUS

25. M. Chisamera, **I. Riposan**, S. Stan, M. Barstow, D. Kelly. Experiences with the production of vermicular-graphite cast irons by sulfur additives after the magnesium treatment. *Giesserei-Praxis*, 2005, Nr. 1, pp. 31-37 [ISSN 0016-9781]. **Recenzii/Indexari:** *Metals Abstracts CSA/METADEX 2005-51-28581*.

26. **I. Riposan**, M. Chisamera, S. Stan, T. Skaland. Surface Graphite Degeneration in Ductile Iron Castings for Resin Molds. *Tsinghua Science and Technology Journal (China)*, Vol. 13, No. 2, April 2008, pp. 157-163, ISSN 1007-0214. **Recenzii/Indexari:** Science Direct Database Elsevier; Engineering Index; INSPEC; Chemical Abstracts; Cambridge Abstract; SCOPUS; IEEE Xplore.

27. A. Crisan, S.I. Munteanu, I. Ciobanu, **I. Riposan**. Optimization of the Chemical Composition of Cast Iron Used for Casting Ball Bearing Grinding Disks. *Tsinghua Science and Technology Journal (China)*, Vol. 13, No. 2, April 2008, pp. 164-169, ISSN 1007-0214. **Recenzii/Indexari:** Science Direct Database Elsevier, Engineering Index, INSPEC, Chemical Abstracts, Cambridge Abstract; SCOPUS; IEEE Xplore.

I.2.2. Reviste romanesti indexate in Baze de Date Internationale (BDI) reprezentative

1. **I. Riposan**, I. Chira. Unele aspecte privind producerea si utilizarea fontelor cu grafit vermicular. *Metalurgia (RO)*, 1974, nr.5, p.381-386

2. I. Chira, **I. Riposan**. Calitatea pieselor turnate si materialele refractare utilizate la confectionarea formelor ceramice. *Metalurgia (RO)*, 1974, nr.10-11, p.681-683.

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I.4.2. Manifestari stiintifice Internationale organizate in Romania

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- 12. I. Riposan, S. Stan, V. Uta.** Evoluția producției mondiale de piese turnate – Realități și previziuni / World Metalcasting Production Evolution - Facts & Forecast. *CNT21-International Foundry Conference*, June 2012, Iasi, Romania, Paper 01.
- 13. I. RIPOSAN, V. UTA, M. FIRICAN, S. STAN, M. CHISAMERA, R. NARO, D. WILLIAMS.** WORLD CRISIS OF RARE EARTH – IMPACT ON DUCTILE IRON PRODUCTION, *The VIth International Conference UgalMat2014*, MAY 29 - 31, 2014, Galati – Romania, Invited Paper No. 2.
- 14. I. Riposan, S. Stan.** Evoluția producției mondiale de piese turnate – Realități și previziuni [World Metalcasting Production Evolution - Facts & Forecast], *The 22nd International Foundry Conference*, June, 4th to 6th, 2014, Cluj-Napoca, Romania, Invited Paper No. 1.
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- 16. I. Riposan.** Sulphur, key element in graphite formation in irons, [S in cast irons – friend or enemy? / Demystifying the Role of S in Cast Irons]. *UGALMAT-2016, CONFERENCE ON MATERIAL SCIENCE & ENGINEERING*, 19-21 MAY 2016, GALATI, ROMANIA, Plenary Paper No. 3.
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I.5. Articole publicate in volumele unor manifestari stiintifice nationale

- 1. I. Riposan,** Cercetari privind procesul de grafitizare indirecta la solidificarea fontelor modificate. *Studii si Cercetari de Metalurgie*, IPB, Bucuresti, Romania, vol.1, 1971, p.667-674 **Recenzii/Indexari:** Chemical Abstract (SUA), 74959b, 78, 1973.
- 2. I. Riposan, I. Chira, V. Brabie.** Consideratii privind utilizarea prealajelor modificatoare la turnarea cilindrilor de laminor din Fgn pentru profile mari. *Studii si Cercetari de Metalurgie*, IPB, Bucuresti, Romania, vol. III, 1973, **Recenzii/Indexari:** Chemical Abstracts (SUA), 94580m, 81, 1974.
- 3. I. Chira, V. Brabie, I. Riposan.** Experimentari pnetru stabilirea tehnologiei de fabricare a cilindrilor mari de laminor destinati liniilor de profile si benzi, turnati din otel hypereutectoid cu carbon ridicat, tip Adamit. *Studii si Cercetari de Metalurgie*, IPB, Bucuresti, Romania, vol. III, 1973, p.319-324. **Recenzii/Indexari:** Chemical Abstracts (SUA), 94627g, 81, 1974.
- 4. I. Riposan, I. Chira, V. Brabie.** Unele aspecte referitoare la uzura cilindrilor de laminor. *Studii si Cercetari de Metalurgie*, IPB, Bucuresti, Romania, vol. III, 1973, p.149-163. **Recenzii/Indexari:** Chemical Abstracts (SUA), 94737t, 81, 1974. SCOPUS
- 5. V. Brabie, I. Riposan, I. Chira.** Cercetari privind infleunta tipului si a cantitatii de modificador asupra proprietatilor fontelor cenusii din domeniul eutectic. *Studii si Cercetari de Metalurgie*, IPB, Bucuresti, Romania, vol. III, 1973, p.177-188. **Recenzii/Indexari:** Chemical Abstracts (SUA), 94676x, 81, 1974.
- 6. L. Sofroni, I. Chira, I. Riposan.** Masina pentru incercarea la uzare prin frecare uscata a fontelor destinate fabricarii prin turnare a cilindrilor de laminor. *A VI-a Conferinta Nationala de Turnatorie*, Bucuresti, Romania, 1973.
- 7. L. Sofroni, I. Riposan, C. Cernat.** Cercetari privind intensificarea proceselor din cubilou in vederea obtinerii fontelor de calitate superioara. *A VI-a Conferinta Nationala de Turnatorie*, Bucuresti, Romania, 1973.

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E. INVENTII

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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].

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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 dross-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 pastille 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. Brichele 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 utilajului 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 modifcatorilor 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 modifcatorilor 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 modifcatorilor 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 Antifriciune 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 antifriciune si a celor bainitice (Cercetari privind asimilarea la I.M.Aiud a Fgn Antifriciune 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 particulare 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 modificatorilor 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.
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- 6. L. Sofroni, I. Chira, I. Riposan.** Turnarea cilindrilor de laminor din otel tip Adamit. Contract nr. 2A/1971, IPB-C.S. Hunedoara.
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- 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.

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- 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.
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