

Универзитет у Београду
Технички факултет у Бору
Број: VI/4-23-6
Бор, 26. 03. 2015. године

На основу чл. 47. Статута Техничког факултета у Бору, Наставно-научно веће Факултета, на седници одржаној 26. 03. 2015. године, донело је

ОДЛУКУ

I Усваја се Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2014. години.

II Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2014. години, саставни је део ове Одлуке.

Доставити:

- продекану за НИР
- пред. Ком. за обезбеђење и унапређење квалитета
- архиви

ПРЕДСЕДНИК
НАСТАВНО-НАУЧНОГ ВЕЋА



ДЕКАН

Проф. др Милан Антонијевић

**Univerzitet u Beogradu,
Tehnički fakultet u Boru**



**GODIŠNJI IZVEŠTAJ
O REZULTATIMA NIR-A**

2014. godina

**Bor,
3. marta 2015.**

GODIŠNJI IZVEŠTAJ O REZULTATIMA NIR&MS ZA UB, TF BOR

2014. godina

OSNOVNI PODACI

Izveštaj o radu u oblasti NIR-a i medjunarodne saradnje na Tehničkom fakultetu u Boru za 2014. godinu obuhvata nekoliko segmenata:

- Spisak referenci nastavnika i saradnika Fakulteta (**M10, M90**)
- Spisak domaćih projekata na kojima su uključeni nastavnici i saradnici Fakulteta
- Spisak medjunarodnih projekata na kojima su uključeni nastavnici i saradnici Fakulteta
- Spisak projekata sa privredom na kojima su uključeni nastavnici i saradnici sa Fakulteta
- Spisak tehničko-razvojnih rešenja (**M80**) ostvarenih od strane nastavnika i saradnika sa Fakulteta
- Spisak ostalih aktivnosti Fakulteta od značaja za NIR & MS

Imajući u vidu elemente za ocenjivanje kvaliteta naučnog rada, na osnovu čl.7 *Pravilnika o vrednovanju rezultata naučnog rada nastavnika i saradnika Tehničkog fakulteta u Boru*, a prema uvidu u rezultate NIR-a na TF Bor tokom 2014. godine, predstavljenih u prilogu datom u produžetku ovog teksta, mogu se izvući **osnovni podaci**:

1. Publikovani radovi u medjunarodnim časopisima kategorije M10+M20: **8+83=91 rad**
2. Publikovani radovi u nacionalnim časopisima kategorije M50: **39 radova**
3. Citiranost u 2014. godini: **145 radova citirano ukupno 318 puta**
4. Publikovane monografije, zbornici radova, udžbenici: **1** monografija medjunarodnog značaja kategorije M14, **5** zbornika sa medjunarodnih naučnih skupova kategorije M30, **1** monografija nacionalnog značaja, **2** zbornika sa skupova nacionalnog značaja kategorije M60 i **2** udžbenika
5. Saopšteni radovi na medjunarodnim (M30) i nacionalnim (M60) skupovima: **161 + 34 = 195 radova**
6. Angažovanje na projektima:
 - 6.1. Međunarodni projekti: **10**
 - 6.2. Projekti kod MPNTR RS: **27** (4 III, 9 OI, 14 TR; od toga 5 projekata na kojima su rukovodioci istraživači sa TF Bor)
 - 6.3. Projekti za privredu + veštačenja: **7 + 1 = 8**

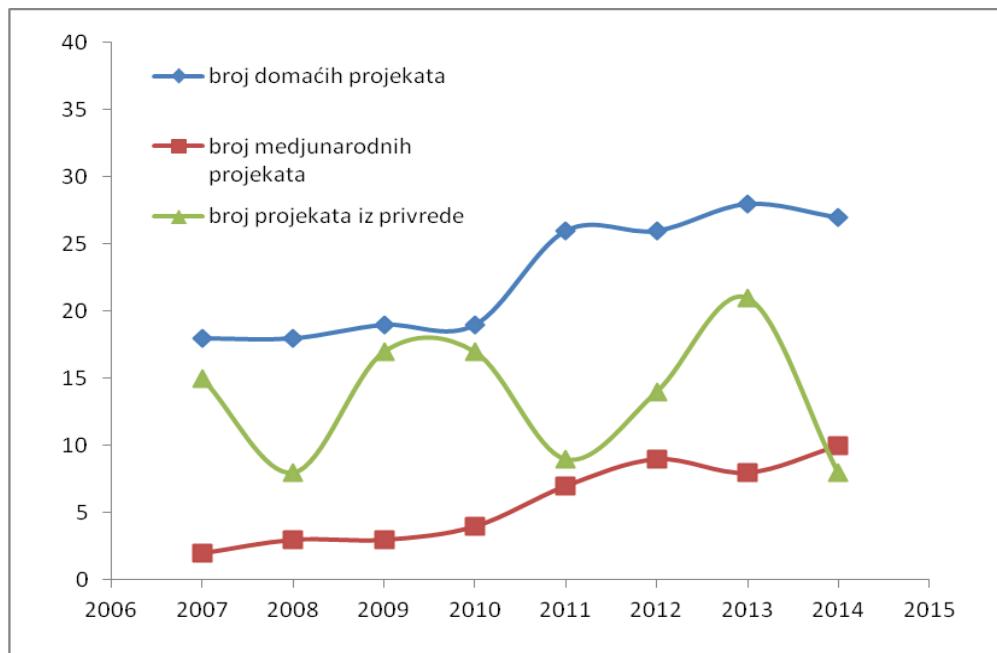
7. Tehničko-razvojna rešenja: 4 (2-M82 I 2-M83)

Zbirni prikaz rezultata NIR-a za 2014. godinu dat je u Tab. 1.

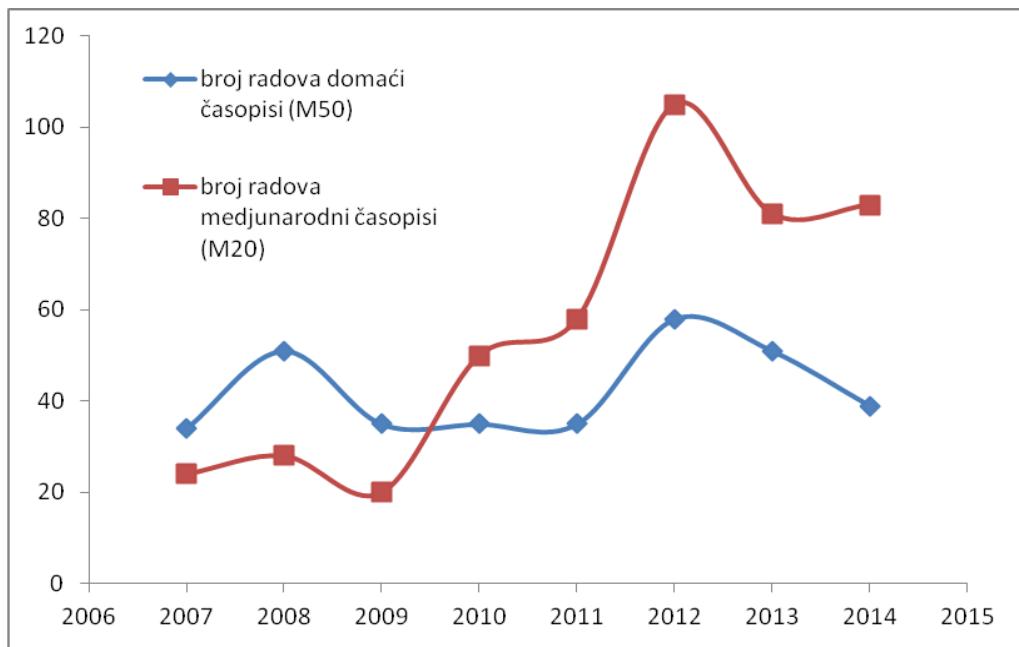
Tabela 1. Zbirni prikaz rezultata NIR & MS za UB, TFB – godina 2014.

NIR & MS rezultati 2014. PREGLED ZA UB, TF BOR		
Tip rezultata/kategorija prema MPN	Broj ostvarenih rezultata	UKUPNO
M13	1	
M14	7	M10 – 8
M21	14	
M22	15	
M23	35	
M24	19	
M28	3	
M31	3	
M33	126	
M34	32	
M36	4	
M41	1	M40 - 1
M51	20	
M52	12	
M53	7	
M55	1	
M56	2	
M61	3	
M63	24	
M64	2	
M66	3	
M71	1	M70 - 1
M82	2	
M83	2	M80 - 4
M92	1	
M93	1	
Udžbenici	2	2
Citiranost	145 radova citirano 318 puta	
Medunarodni projekti	10	
Projekti finansirani od MPN RS	27	
Projekti finansirani od privrede i ostali projekti	8	
Organizovani naučni skupovi	6	
	(5 medjunarodnih i 1 nacionalni sa medjunarodnim učešćem)	
Publikovani časopisi	4	

Sledi komparativni prikaz rezultata za prethodni period (od 2007. godine do danas) predstavljen na Sl. 1-3. i u Tab. 2.



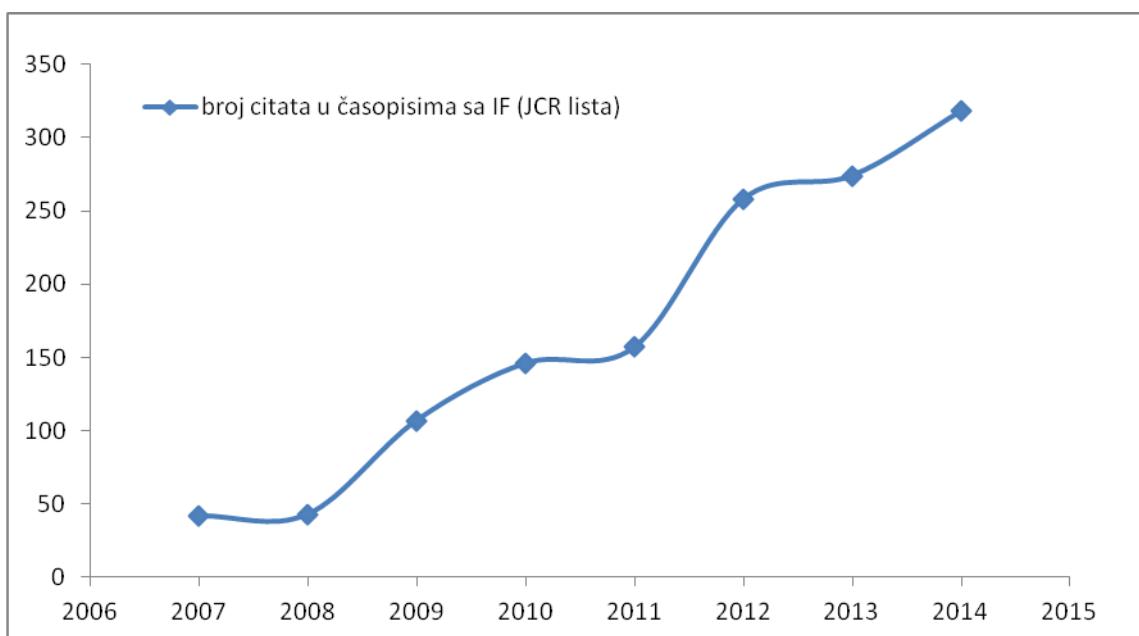
Sl.1. Komparativni prikaz broja projekata na TF Bor u periodu 2007. - 2014. god.



Sl.2. Komparativni prikaz broja radova (M20 i M50) na TF Bor u periodu 2007. - 2014. god.

Tabela 2. Komparativni prikaz broja rezultata kategorija M30, M60, M70, M80 i M90 u periodu 2010. - 2014. god.

Godina	2010.	2011.	2012.	2013.	2014.
broj saopštenja na medj.skupovima (M30)	107	179	161	174	165
broj saopštenja na dom.skupovima (M60)	68	79	70	44	32
broj MSc i Dr radova (M70)	9	1	8	8 (3+5)	1
broj tehničko-razvojnih rešenja (M80)	6	2	8	9	4
broj autorskih izložbi (M90)	-	-	-	1	1



Sl.3. Komparativni prikaz broja citata na JCR listi - TF Bor, period 2007. - 2014. god.

Radovi koje su publikovali nastavnici i saradnici TF Bor u 2014. godini objavljeni u časopisima M20 kategorije, pripadaju sledećim naučnim oblastima:

- 14 rada - Field: Metallurgy&Metallurgical Engineering
- 7 rada - Field: Environmental Sciences
- 6 rada - Field: Chemistry, Multidisciplinary
- 5 rada - Field: Materials Science, Multidisciplinary
- 4 rada - Field: Engineering, Chemical
- 3 rada - Field: Chemistry, Physical
Field: Engineering, Electrical & Electronic
- 2 rada - Field: Mining & Mineral Processing
Field: Physics, Condensed Matter
Field: Mathematics
Field: Physics, Multidisciplinary
Field: Electrochemistry
Field: Thermodynamics

1 rad - Field: Engineering, Environmental
Field: Psychology, Multidisciplinary
Field: Water Resources
Field: Sociology
Field: Engineering, Industrial
Field: Computer Science, Artificial Intelligence
Field: Mechanics
Field: Computer Science, Software Engineering
Field: Economics

Što se citiranosti tiče, uočava se povećana heterogenost citiranih autora, ali se i dalje izdvaja nekoliko istraživačkih grupa i pojedinaca u ukupnoj citiranosti za 2014. godinu, i to posebno: prof. dr Milan Antonijević – 29 radova citirano 107 puta (ukupni broj radova 67), prof. dr Dragana Živković – 42 rada citirana 73 puta (ukupni broj radova 189), i prof. dr Živan Živković – 25 radova citirano 45 puta (ukupni broj radova 147). (*Navedeni podaci se odnose na citiranost bez autocitata.*)

I ove godine se predstavljeni ukupni rezultati aktivnosti iz oblasti NIR-a i MS-a mogu smatrati zadovoljavajućim imajući u vidu aktuelni trenutak i probleme u nauci u Srbiji danas. Međutim, u poređenju sa prethodnim periodom, i uprkos znatno uvećanom broju podmladjenog kadra, uočava se blagi kvantitativni pad rezultata nakon 2012. godine, posebno u broju publikovanih radova kategorija M20 (2012.-97, 2013.-81 i 2014.-86) i M50 (2012.-58, 2013.-51, 2014.-42) (Sl.2.). U narednom periodu treba posebno insistirati na aktivnjem učešću svih istraživača sa TF Bor u ukupnom broju radova, a posebno mlađih - asistenata, doktorskih studenata i docenata.

Vezano za tekući projektni ciklus kod MPNTR, i dalje su prisutni stalni materijalno-finansijski problemi, što je u izvesnoj meri otežalo adekvatno sprovodjenje aktivnosti iz NIR-a prema ranije utvrđenim planovima. Očekuje se da tokom 2015. godine konačno pristignu sav preostali materijal za rad i sitna oprema naručeni preko PIU-JUP-a, kako bi se projektni ciklus mogao uspešno privesti kraju. Treba napomenuti, da je od kapitalne opreme (vrednost aparata oko 70000EUR), iz okvira projekta OI172037, na TF Bor decembra 2014. godine stigao i aparat *Xenon Flash Thermal Constant Analyzer* za beskontaktno nedestruktivno ispitivanje termijske difuzivnosti i provodljivosti čvrstih i tečnih supstanci u širem temperaturnom opsegu.

Ono što posebno treba istaći, jeste činjenica da je tokom maja 2014. godine, iz okvira EU HETIP projekta, na Fakultet stiglo nekoliko komada kapitalne opreme u vrednosti od oko 600000 EUR: simultani diferencijalno-skenirajući kalorimetar sa termo-gravimetrijskom analizom – *DSC/TGA*, skenirajući elektronski mikroskop sa energetsko disperzivnim spektrometrom – *SEM-EDS*, induktivno udružen plazma-optički emisioni spektometar *ICP-OES*, skenirajuće-sondni mikroskop – *SPM*, i elektrohemijska stanica. Ovo se može se smatrati najznačajnijom nabavkom savremene istraživačke opreme na TF Bor u poslednjih dvadesetak godina.

U oblasti saradnje sa privredom, u nesto manjoj meri u odnosu na prethodnu godinu, nastavljeno je sa studijama, elaboratima i tehničkim kontrolama rudarskih projekata. U odnosu na 2014. godinu, broj tehničkih i razvojnih rešenja je takođe smanjen. Od ostalih aktivnosti ovog tipa, treba posebno pomenuti tim u kome su učestvovali istraživači sa našeg fakulteta sa inovacijom

Eco Coal-Bio Briquette mašina - univerzalna mašina za briketiranje uglja, koji je postigao sjajan uspeh na takmičenju “Najbolja tehnološka inovacija 2014.” i osvojio 8. mesto u ukupnom plasmanu od ukupno 132 prijavljena inovativna tima u Srbiji i Republici Srpskoj. (http://inovacija.org/index.php/sr-rs/?option=com_content&view=article&id=193)

TF Bor je i ove godine imao brojna dešavanja na planu medjunarodne saradnje. Kao i svake godine, potpisani su bilateralni sporazumi i ugovori o poslovno-tehničkoj saradnji sa relevantnim visokoškolskim organizacijama, naučnim institutima i drugim ustanovama iz srodnih oblasti iz Srbije i inostranstva (opširije dato u prilogu), po prvi put su potpisani ugovori sa fakultetima iz Rusije i Slovačke, a potписан je i ugovor sa Akita University, Japan u okviru novog zajedničkog projekta. Nastavljen je uspešan rad akademskih mreža u kojima je TF Bor aktivan partner (Resita Network, MetNet, EURAXESS mreža, Srpska nacionalna mreža tehnoloških brokeri), posebno u okviru Rešica mreže. Kroz aktuelne medjunarodne projekte i medjunarodne skupove koje Fakultet organizuje, ostvareni su dalji značajni kontakti sa respektabilnim evropskim akademskim i naučnim institucijama, što stvara povoljnu klimu za razvoj daljih aktivnosti u smislu medjunarodne razmene studenata i nastavnog osoblja. Beleži se značajan broj organizovanih poseta doktorskih studenata i nastavnika TF Bor partnerskim fakultetima u inostranstvu, kao i poseta i predavanja nastavnika sa inostranih univerziteta (Kanada, Nemačka, Slovenija, Bugarska, Slovačka, Austrija, Hrvatska, Kazahstan, Makedonija, Rumunija, BiH, Rusija, Velika Britanija, itd.) na TF Bor, medju kojima i pojedinih svetski poznatih imena. Ovo je svakako pozitivan trend na Fakultetu koji i dalje treba podržavati i razvijati.

U oblasti izdavačke aktivnosti treba istaći da je štampan manji broj udžbeničke literature u odnosu na ranije godine, dok je po pitanju izdavanja časopisa stanje u 2014.godini sledeće:

- *JMM - Section A: Mining* - svrstan je u kategoriju M51 (prema kategorizaciji domaćih naučnih časopisa za energetiku, rudarstvo i energetsку efikasnost)
- *JMM - Section B: Metallurgy* - svrstan je u kategoriju M21 (od 2010.godine); IF(2013)=1.135 i mesto 22/75 u oblasti Metallurgical Engineering, kao i petogodišnji IF(2008-2013)=1.008 i mesto 23/75 u pomenutoj oblasti, što, i pored zadržane pozicije u grupi vodećih medjunarodnih časopisa, predstavlja blagi pad u odnosu na prethodnu godinu.
- *SJM* - svrstan je u kategoriju M24 (prema kategorizaciji domaćih naučnih časopisa za uređenje, zaštitu i korišćenje voda, zemljišta i vazduha), i
- *ROR* - svrstan je u kategoriju M52 (prema kategorizaciji domaćih naučnih časopisa za energetiku, rudarstvo i energetsku efikasnost).

Tokom protekle godine, Fakultet je uspešno organizovao šest naučnih skupova (dato hronološki):

- *X International May Conference on Strategic Management - MCSM2014* (B.Jezero, maj 2014., predsednik Org.odbora – Prof.dr Ivan Mihajlović),
- *XXII International Scientific and Professional Meeting "Ecological Truth" ECO-IST 2014* (B.Jezero, jun 2014., predsednik Org.odbora – Prof.dr Radoje Pantović)
- *IX Simpozijum Reciklažne tehnologije i održivi razvoj - SRTOR2013* (Zaječar, septembar 2014., predsednik Org.odbora – Doc.dr Jovica Sokolović),
- *46th International October Conference on Mining and Metallurgy IOC 2014* (B.Jezero, oktobar 2014., predsednik Org.odbora – Prof.dr Nada Šrbac),

- 4th International Symposium on Environmental and Materials Flow Management – EMFM 2014 (B.Jezero, novembar 2014., predsednik Org.odbora – Doc.dr Djordje Nikolić)

U okviru skupova – IMCSM, EcoIst, SRTOR – nastavljeno je sa organizacijom odgovarajućih studentskih simpozijuma, a po prvi put u 2014. godini, pokrenut je u okviru IOC i 1st International Student Conference on Mining, Metallurgy, Chemical Engineering, Material Science and related fields (predsednik Org.odbora – Doc.dr Ljubiša Blanović). Treba napomenuti da su, pored generalnog sponzora MPNTR RS, organizaciju prošlogodišnjih skupova pomogle i firme Netzch, Rio Tinto, 3M, RTB Bor, Rakita Exploration doo. Bor, Avala Resources Ltd., SGS, Micromine, Jugoimpex, i drugi, sa kojima je ostvarena dobra saradnja.

U organizaciji TF Bor je održana i jedna studentska radionica u sklopu Resita Network (Borsko Jezero, maj 2014).

TF Bor je tokom 2014. godine imao i živu sajamsku aktivnost – beleži se zapaženo učešće na četiri sajma, i to na:

- 11. Međunarodnom sajmu obrazovanja – EDUfair, u Beogradu marta 2014. (koordinator: Prof. dr Snežana Milić)
- 58. Međunarodnom sajmu tehnike i tehničkih dostignuća, u Beogradu maja 2014. (koordinator: Prof. dr Nada Štrbac)
- 59. Medjunarodnom beogradskom sajmu knjiga, u Beogradu oktobra 2014. (koordinator: Prof. dr Mirjana Rajčić Vujasinović)
- Sajamska manifestacija “Zdravo, domaće, prirodno” u organizaciji RPK Zaječar, oktobra 2014. (koordinator: Doc. dr Jovica Sokolović)

I tokom 2014. godine su nastavljene aktivnosti na TF Bor vezane za popularizaciju nauke kod mladih. Studenti, asistenti i nastavnici Fakulteta po treći put su bili organizatori (zajedno sa O.Š. Dušan Radović i Društвom mladih istraživača iz Bora) i učesnici 3. Festivala nauke u Boru – Naučni tornado 2014, novembra 2014. Dalje, po prvi put u Boru, septembra 2014.godine pokrenuta je od strane našeg fakulteta i naučno-promotivna akcija BONIS2014 – Borska noć istraživača, na kojoj je učestvovao veliki broj studenata, asistenata i saradnika. Ova nova aktivnost je organizovana u saradnji sa O.Š. Dušan Radović, Društвom mladih istraživača iz Bora, Studentskim centrom Bor i Akademskim kulturnim klubom Bor. Takodje, prošle godine u septembru je, po prvi put, organizovan u okviru IX SRTOR-a i 1. Festival recilkaže u Zaječaru, a u okviru manifestacije Noć muzeja, maja 2014. u Zavičajnom muzeju u Knjaževcu organizovana je i izložba Tajni svet metala i minerala čiji su autori nastavnici TF Bor.

Na kraju, treba pomenuti da je na TF Bor tokom 2014. godine, sopstvenim snagama, razvijena i NIR-aplikacija – softver/ baza podataka za naučne reference zaposlenih nastavnika i saradnika na Fakultetu, čime su stvoreni bolji uslovi za prikupljanje, ažuriranje i arhiviranje podataka o NIR-u. Podaci prezentovani u ovom izveštaju su, po prvi put, sakupljeni na ovaj način - korišćenjem pomenute NIR aplikacije.

Iz datog izveštaja se može uočiti da su rezultati na TF Bor u oblasti NIR-a i medjunarodne saradnje za 2014. godinu, zadovoljavajući, mada u izvesnoj meri slabiji u odnosu na prethodne

godine - posebno 2012. godinu (imajući u vidu elemente za ocenjivanje kvaliteta naučnog rada, na osnovu čl.7 *Pravilnika o vrednovanju rezultata naučnog rada nastavnika i saradnika Tehničkog fakulteta u Boru*). Iz tog razloga je neophodno raditi na daljem poboljšanju i stvaranju uslova za unapredjenje aktivnosti u ovoj oblasti u narednom periodu.

Podnositelj izveštaja:



Prof. dr Dragana Živković
Prodekan za NIR&MS TF Bor

U Boru,
3. marta 2015. godine

Prilog 1.

**PREGLED REZULTATA NIR-A KOJE SU OSTVARILI NASTAVNICI I
SARADNICI TF BOR U 2014. GODINI**

Tip rezultata/kategorija prema MPNTR	Broj ostvarenih rezultata
M13	1
M14	7
M21	14
M22	15
M23	35
M24	19
M31	3
M33	126
M34	32
M36	4
M41	1
M51	20
M52	12
M53	7
M55	1
M56	2
M61	3
M63	24
M64	7

M66	2
M71	1
M82	2
M83	2
M92	1
M93	1
Udžbenici	2

M13 - 1

1. Z. Stević, M. Rajčić Vujsinović, I. Radovanović: Supercapacitors Test Methods, Editors: Cindy D. Mullan, Publisher: Nova Science Publishers, NY, USA , ISBN 978-1-63321-019-6, pp. , 2014

M14 - 7

1. D. Brodić, Z. Milivojević, Č. Maluckov: Script Characterization in the Old Slavic Documents (Image and Signal Processing, Lecture Notes in Computer Science 8509) , Editors: Abderrahim Elmoataz, Olivier Lezoray, Fathallah Nouboud, Driss Mammass , Publisher: Springer-Verlag, Printed by Springer International Publishing, ISBN 978-3-319-07998-1; 978-3-319-07997-4, ISSN: 0302-9743 , pp. 230 - 238, 2014
2. D. Brodić, Č. Maluckov, Z. Milivojević, I. Draganov: Differentiation of the Script Using Adjacent Local Binary Patterns (Artificial Intelligence: Methodology, Systems, and Applications, Lecture Notes in Artificial Intelligence 8722), Editors: Gennady Agre, Pascal Hitzler, Adila A. Krisnadhi, Sergei O. Kuznetsov , Publisher: Springer-Verlag, Printed by Springer International Publishing, ISBN 978-3-319-10553-6, 978-3-319-10554-3, ISSN: 0302-9743, pp. 162 - 169, 2014
3. K. Riesen, D. Brodić, Z. Milivojević, Č. Maluckov: Graph Based Keyword Spotting in Medieval Slavic Documents – A Project Outline (Digital Heritage. Progress in Cultural Heritage: Documentation, Preservation, and Protection, Lecture Notes in Computer Science 8740), Editors: Marinos Ioannides, Nadia Magnenat-Thalmann , Eleanor Fink, Roko Žarnić, Alex-Yianing Yen, Ewald Quak , Publisher: Springer-Verlag, Printed by Springer International Publishing, ISBN 978-3-319-13694-3, 978-3-319-13695-0, ISSN: 0302-9743, pp. 724 - 731, 2014
4. M. Arsić, A. Fedajev, M. Savić, D. Voza: Possibilities for development of business cluster network between SMEs from Visegrad countries and Serbia, Editors: Prof. dr

Ivan Mihajlović, Publisher: University of Belgrade, Technical Faculty in Bor, Engineering Management Department (EMD) , ISBN 978-86-6305-023-5 , pp. 91 - 99, 2014

5. N. Milijić, I. Mihajlović, Đ. Nikolić, Ž. Živković: A comparative analysis of occupational safety in SMEs in Serbia and European countries - International monography Possibilities for development of business cluster network between SMEs from Visegrad countries and Serbia, Editors: Ivan Mihajlović, Živan Živković, Publisher: University of Belgrade, Technical Faculty in Bor, Engineering Management Department (EMD), ISBN 978-86-6305-023-5, pp. 159 - 169, 2014
6. I. Milošević, T. Rajić, D. Voza, Đ. Nikolić, I. Mihajlović: Possibilities for development of business cluster network between SMEs from Visegrad countries and Serbia, Editors: Ivan Mihajlović, Živan Živković, Isidora Milošević, Danijela Voza, Milica Arsić, Publisher: University of Belgrade, Tehnical Faculty in Bor, Engineering Management Department, ISBN 978-86-6305-023-5, pp. 121 - 131, 2014
7. T. Rajić, I. Milošević, P. Đorđević, I. Nikolić: Possibilities for development of business cluster network between SMEs from Visegrad countries and Serbia, Editors: Prof. dr Ivan Mihajlović, Prof. dr Živan Živković, dr Isidora Milošević, dr Milica Arsić, Danijela Voza , Publisher: University of Belgrade, Technical Faculty in Bor, Engineering Management Department (EMD) , Printed by University of Belgrade, Technical Faculty in Bor, Engineering Management Department (EMD), ISBN 978-86-6305-023-5 , pp. 109 - 119, 2014

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Prilog 3.

SPISAK DOMAĆIH PROJEKATA NA KOJIMA SU U PERIODU OD 2011-2014. GODINE UČESTVOVALI ISTRAŽIVAČI SA TEHNIČKOG FAKULTETA U BORU

Projekti finansirani od strane Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije:

OI projekti - 9 projekata (na 2 projekta rukovodili projekta sa TF Bor)

TR projekti - 14 projekata (na 3 projekta rukovodili projekta sa TF Bor)

III projekti - 4 projekta

Red. broj	Naziv projekta	Istraživači sa TF Bor	Oblast	Broj projekta (pozicija projekta nakon početne evaluacije)	Institucija koordinator	Rukovodilac
1.	``Razvoj tehnologija flotacijske prerade ruda bakra i plemenitih metala radi postizanja boljih tehnoloških rezultata``	Zoran Marković, Zoran Štirbanović	TR	33023 (225/275)	Institut za rudarstvo i metalurgiju Bor	dr Dragan Milanović, naučni saradnik
2.	``Monitoring elektromagnetskih zračenja mobilnih telekomunikacionih sistema u životnoj sredini, analiza molekularnih mehanizama i biomarkera oštećenja kod hronične izloženosti sa razvojem modela za procenu rizika i metoda za zaštitu od zračenja``	Čedomir Maluckov	III	43012 (24/110)	Medicinski fakultet u Nišu	dr Dušan Sokolović, docent
3.	``Zajednička istraživanja i uticaja jonizujućeg UV zračenja u oblasti medicine i zaštite životne sredine``	Čedomir Maluckov	III	43011 (58/110)	Elektronski fakultet u Nišu	dr Goran Ristić, red. profesor
4.	``Magmatizam i geodinamika balkanskog poluostrva od mezozoika do danas: značaj za obrazovanje metaličnih i nemetalicičnih rudnih ležišta``	Miodrag Banješević	OI	176016 (130/395)	Rudarsko-geološki fakultet u Beogradu	dr Vladica Cvetković, redovni profesor
5.	``Virtuelni koštano zglobni sistem čoveka i njegova primena u predkliničkoj i kliničkoj praksi``	Dejan Tanikić, Dalibor Đenadić	III	41017 (69/110)	Mašinski fakultet u Nišu	dr Miroslav Trajanović, redovni profesor
6.	``Minerali Srbije: Sastav, geneza, primena i doprinos održavanju životne sredine``	Mira Cocić,	OI	176010 (387/395)	Rudarsko-geološki fakultet u Beogradu	dr Mihovil Logar, red. profesor

7.	``Nov pristup dizajniranju materijala za konverziju i skladištenje energije``	Mirjana Rajčić – Vujasinović, Zoran Stević, Vesna Grekulović,	OI	172060 (38/395)	Institut za hemiju, tehnologiju i metalurgiju u Beogradu	dr Amalija Tripković, naučni savetnik
8.	``Uticaj rudarskog otpada iz RTB-a Bor na zagadjenje vodotokova sa predlogom mera i postupaka za smanjenje štetnog dejstva na životnu sredinu``	Dejan Antić,	TR	37001 (105/275)	Institut za rударство i metalurgiju Bor	dr Mile Bugarin, viši naučni savetnik
9.	``Razvoj i primena distribuiranog sistema nadzora i upravljanja potrošnjom električne energije kod velikih potrošača``	Darko Brodić, Vladimir Despotović	TR	33037 (163/275)	Institut za rударство i metalurgiju Bor	dr Dragan Milivojević, naučni saradnik
10.	``Funkcionalna analiza, stohastička analiza i primene``	Ivana Đolović, I. Radojević	OI	174007 (146/395)	Prirodno matematički fakultet u Nišu	dr Dragan Đorđević, redovni profesor
11.	``Razvoj naprednih materijala i tehnologija za multifunkcionalnu primenu zasnovanih na ekološkom znanju``	Vladimir Despotović, Dejan Tanikić,	TR	34005 (128/275)	Institut za rударство i metalurgiju Bor	dr Ana Kostov naučni savetnik
12.	``Razvoj tehnoloških procesa prerade nestandardnih koncentrata bakra u cilju optimizacije emisije zagađujućih materijala``	Nada Šrbac, Ivan Mihajlović, Milovan Vuković, Dejan Bogdanović, Aleksandra Mitovski, Milica Arsić, Đorđe Nikolić, Ivan Jovanović, Isidora Đurić	TR	34023 (50/275)	Tehnički fakultet u Boru	dr Nada Šrbac, redovni profesor
13.	``Razvoj novih i unapređenje postojećih tehnoloških postupaka proizvodnje tehničkih tekstilnih materijala``	Snežana Urošević	TR	34020 (188/275)	Tehnološki fakultet u Leskovcu	dr Miodrag Stamenković, prof.
14.	``Neki aspekti rastvaranja metala i prirodnih minerala``	Milan Antonijević, Snežana Milić, Grozdanka Bogdanović, Mile Dimitrijević, Marija Petrović, Milan Radovanović,	OI	172031 (184/110)	Tehnički fakultet u Boru	dr Milan Antonijević, redovni profesor

		Ana Stamenković, Maja Trumić,				
15.	``Razvoj novih inkapsulacionih i enzimskih tehnologija za proizvodnju biokatalizatora i biološko aktivnih supstanci hrane u cilju povećanja njene konkurentnosti, kvaliteta i bezbednosti``	Snežana Šerbula, Nenad Vušović, Slađana Alagić, Snežana Urošević, Ana Ilić, Tanja Kalinović, Jelena Strojić, Milan Gorgievski	III	46010 (13/110)	Tehnološko metalurški fakultet u Beogradu Tehnički fakultet u Boru	dr Branko Bugarski, red.prof.
16.	``Implementacija savremenijih tehničko-tehnoloških i ekoloških rešenja u postojećim proizvodnim sistemima Rudnika bakra Bor i Rudnika bakra Majdanpek``	Rodoljub Stanojlović, Zoran Marković, Milan Trumić, Jovica Sokolović, Zoran Štirbanović	TR	33007 (200/275)	Institut za tehnologiju nuklearnih i drugih mineralnih sirovina Beograd	dr Vladan Milošević, naučni saradnik
17.	``Savremeni višekomponentni metalni sistemi i nanostruktturni materijali sa različitim funkcionalnim svojstvima``	Dragana Živković, Živan Živković, Dragan Manasijević, Ljubiša Balanović	OI	172037 (4/395)	Tehnički fakultet u Boru	dr Dragana Živković, redovni profesor
18.	``Dinamika hibridnih sistema``	Jelena Đoković	OI	174001 (268/395)	Matematički institut SANU Beograd	dr Katica (Stevanović) Hedrih, naučni savetnik
19.	``Razvoj tehnologije proizvodnje Rd katalizatora-hvatača za smanjenje gubitaka platine u visoko temperaturnim procesima katalize``	Saša Marjanović	TR	34029 (274/275)	Institut za rudarstvo i metalurgiju Bor	dr Biserka Trumić, viši naučni saradnik
20.	``Osvajanje proizvodnje livenih legura Cu-Au,Cu-Ag,Cu-Pt,Cu-Pd,Cu-Rh poboljšanih svojstava primenom mehanizma ojačavanja žarenjem``	Svetlana Nestorović, Desimir Marković, Dragoslav Gusković, Ljubica Ivanić, Svetlana Ivanov, Ivana Marković, Saša Marjanović, Vesna	TR	34003 (192/275)	Tehnički fakultet u Boru	dr Svetlana Nestorović, redovni profesor

		Grekulović, Bata Marjanović				
21.	``Razvoj ekoloških i energetski efikasnijih tehnologija za proizvodnju obojenih i plemenitih metala kombinacijom bioluženja, solventne ekstrakcije i elektrolitičke rafinacije``	Svetlana Ivanov	TR	34004 (257/275)	Institut za rudarstvo i metalurgiju Bor Tehnički fakultet u Boru	dr Vladimir Cvetkovski, naučni saradnik
22.	``Istraživanje i praćenje promena naponsko – deformacionog stanja u stenskom masivu ``IN SITU`` oko podzemnih prostorija sa izradom modela sa posebnim osvrtom na tunel kriveljske reke i jame Bor``	Vitomir Milić	TR	33021 (265/275)	Institut za rudarstvo i metalurgiju Bor Tehnički fakultet u Boru	dr Milenko Ljubojev, naučni savetnik
23.	``Problemi nelinearne analize, teorije operato-ra, topologije i primene``	Darko Kocev	OI	174025 (197/395)	Prirodno matematički fakultet u Nišu Tehnički fakultet u Boru	dr Vladimir Rakočević, redovni profesor
24.	“Usavršavanje tehnologije eksploatacije i prerađe rude bakra sa monitoringom životne i radne sredine u RTB Bor-Grupa“	Radoje Pantović, Nenad Vušović, Vitomir Milić, Miodrag Žikić, Radmilo Nikolić Rodoljub Stanojlović Snežana Šerbula, Miodrag Denić, Miodrag Banješević, Saša Stojadinović, Igor Srvkota, Jovica Sokolović, Dejan Petrović, Ana Radojević, Tanja Kalinović, Jelena Kalinović	TR	33038 (208/275)	Tehnički fakultet u Boru	dr Nenad Vušović, redovni profesor
25.	„Istraživanje mogućnosti primene AT (Advanced technology) viseće podgrade u rudnicima u cilju povećanja bezbednosti rada i efikasnosti proizvodnje“	Miodrag Denić	TR	33025 (23/275)	Rudarsko-geološki fakultet u Beogradu Tehnički fakultet u Boru	dr Vojin Čokorilo, red. profesor
26.	„Održivost identiteta Srba i nacionalnih manjina u	Milovan Vuković,	OI	179013 (131/395)	Mašinski fakultet u	dr Dragoljub Đorđević,

	pograničnim opštinama Istočne i Jugoistočne Srbije „,	Danijela Voza			Nišu Tehnički fakultet u Boru	red.prof.
27.	Razvoj tehnologije za reciklažu plemenitih, retkih i pratećih metala iz čvrstog otpada Srbije do visokokvalitetnih proizvoda	Milan Gorgievski	TR	34024	IRM Bor	dr Vlastimir Trujić

Prilog 4.

SPISAK MEĐUNARODNIH PROJEKATA NA KOJIMA SU 2014. GODINE UČESTVOVALI ISTRAŽIVAČI SA TEHNIČKOG FAKULTETA U BORU

1. COST MP0903 - „Nanoalloys as Advanced Materials: From Structure to Properties and Applications (NANOALLOY) 2011-2014.
2. 54622398 DAAD Academic Reconstruction South Eastern Europe programme: Resita Network - Innovation and Entrepreneurship, 2008-2014.
3. 37 511001-TEMPUS-1-2010-1 - Development of Environment and Resources Engineering Learning - DEREL, 2010-2014.
4. EU HETIP (High Education Teaching Infrastructure Project) – Обнова наставних зграда и набавка наставне и истраживачке опреме на Техничком факултету у Бору, 2010-2014.
5. Program bilateralne saradnje Srbije i Kine – Comparative thermodynamic investigation and characterization od advanced ecological shape memory alloys, 2013-2014.
6. Program bilateralne saradnje Srbije i Slovenije, Thermodynamic analysis and phase equilibria investigation in some low melting aliozs in Zn-Al-Sn-Ga-In system, 2014-2015.
7. Razvojni program SVIJET Sveučilišta u Zagrebu: Razvoj novih legura s prisjetljivosti oblika – multilateralni projekt Metalurškog fakulteta u Sisku Sveučilišta u Zagrebu (Hrvatska), Tehničkog fakulteta u Boru Univerziteta u Beogradu (Srbija) i Fakulteta za metalurgiju i materijale Univerziteta u Zenici, 2011-2015.
8. JST SATREPS project: Research on the Integration System of Spatial Environment Analyses and Advanced Metal Recovery to Ensure Sustainable Resource Development, 2014-2019.
9. Project: Possibilities for development of business cluster network between SMEs from Visegrad countries and Serbia, funded by Visegrad fond, 2014.
10. Erasmus + KA1 projekat za razmenu studenata, nastavnika o administrativnog osoblja: ostvarena mobilnost - Doc.dr Natalija Dolić; sa Metalurškog fakulteta u Sisku, Sveučilišta u Zagrebu na TF Bor, oktobar 2014. god.

Prilog 5.

SARADNJA SA PRIVREDOM – TF BOR, 2014

Projekti, studije, elaborati

1. Projekat sanacije klizista u istočnom delu površinskog kopa "Severni revir" u Rudniku Bakra Majdanpek, R. Pantović, S. Stojadinović, Tehnički fakultet u Boru, Bor 2014.
2. Projekat monitoringa uticaja miniranja na površinskom kopu „Južni Revir“ na ljude i objekte u južnom delu grada Majdanpeka, R. Pantović, S. Stojadinović, Tehnički fakultet u Boru, Bor 2014.
3. Elaborat o „nultom“ stanju oštećenja objekata u zoni seizmičkog uticaja miniranja na severnom boku površinskog kopa Južni Revir, R. Pantović, S. Stojadinović, Tehnički fakultet u Boru, Bor 2014.

Tehničke kontrole projekata

1. Tehnička kontrola: „Godišnjeg operativnog plana za 2014. godinu za pogone RBB Bor“. Bor, 2014. godine, V.Milić
2. Tehnička kontrola: „Godišnjeg operativnog plana proizvodnje za 2014. godinu na kopovima Čokoće i Trešnja u Holcim d.o.o Novi Popovac“. Bor, 2014. godine, V.Milić
3. Tehnička kontrola: „Dopunskog rudarskog projekta eksploatacije rezervi uglja između prostorija OH – 790, raseda R-8 i R-3a u jami rudnika „Štavalj“ – Sjenica“ – Rudarskog projekta za izvođenje rudarskih radova van eksploatacionog polja jame rudnika „Štavalj“- Sjenica“. Bor, 2014. godine, V.Milić
4. Glavni rudarski projekt površinske eksploatacije krečnjaka za proizvodnju cementa i tehničkog građevinskog kamena na ležištu „Čokoće“ Novi Popovac, investitor Institut za rudarstvo i metalurgiju Bor iz Bora, Tehnički fakultet je vršilac tehničke kontrole, radna grupa M. Žikić, R. Pantović, S. Stojadinović i M. Trumić, 2014.

Sudska veštacenja

1. Veštacenje za potrebe Osnovnog suda u Paraćinu, Parnični postupak, Predmet broj 5P. Br. 1609/13, Komisija veštaka u sastavu Saša Stojadinović, Igor Svrkota i Dejan Petrović, 2014.

Прилог 6.

СПИСАК ТЕХНИЧКО-РАЗВОЈНИХ РЕШЕЊА ИСТРАЖИВАЧА СА ТЕХНИЧКОГ ФАКУЛТЕТА У БОРУ У 2014. ГОДИНИ

Преглед:

M82 – 2

M83 – 2

Техничко и развојно решење (M83 – нови технолошки поступак):

”Хидрометалуршки поступак прераде полиметаличних Cu-Zn-Pb сулфидних концентрата лужењем раствором сумпорне киселине и натријум-нитрата при стандардном притиску”

Аутори: М.Сокић, Б.Марковић, В.Матковић, Н.Штрбац, Д.Живковић, А.Митовски, В.Манојловић

Облик валоризације, односно тржишне комерцијализације

Корисник: РТБ -ТИР Бор

Техничко и развојно решење (M83 – нови технолошки поступак):

”Интегрални третман флотацијске јаловине бакра са поља 1 старог флотацијског јаловишта РТБ-а Бор”

Аутори: М.Бугарин, З.Стевановић, Р.Марковић, Љ.Обрадовић, В.Гардић, Р.Јоновић, Љ.Аврамовић, Ј.Стевановић, М.Гвозденовић, М.Трумић

Облик валоризације, односно тржишне комерцијализације

Корисник: РТБ Бор

Техничко и развојно решење (M82 – нови материјал):

”Побољшање механичких својстава легуре састава PdNi5 оптимизацијом термомеханичког режима прераде”

Аутори: А.Ивановић, Б.Трумић, В.Крстић, С.Иванов, С.Марјановић, С.Димитријевић, В.Марјановић

Облик валоризације, односно тржишне комерцијализације

Корисник: ИРМ Бор

Техничко и развојно решење (M82 – индустриски прототип):

”Мерни претварач електричне снаге”

Аутори: Д.Миливојевић, Р.Радетић, В.Тасић, М.Павлов, В.Деспотовић, Д.Бродић, Д.Таникић, В.Миљковић

Облик валоризације, односно тржишне комерцијализације

Корисник: РТБ Бор

Prilog 7.

OSTALE AKTIVNOSTI U OBLASTI NIR-A NA TEHNIČKOM FAKULTETU U BORU U 2014. GODINI

1. Nova oprema za NIR na TF Bor:

U periodu od 2011. do 2014. godine, TF Bor je iz okvira učešća na medjunarodnim projektima, kao i projektima MPNTR RS, u značajnoj meri – u poređenju sa dugogodišnjim prethodnim periodom – obnovio svoje naučno-istraživačke kapacitete novom opremom. Pored više sitnih uredjaja i aparata manje vrednosti, tokom 2014.godine na Fakultet je stiglo i par komada kapitalne opreme, i to:

- Preko EU HETIP projekta, delegacija EU u Srbiji je investirala blizu 600.000 EUR za novu opremu na TF Bor, koja je stigla u maju 2014. godine: simultani diferencijalno-skenirajući kalorimetar sa termo-gravimetrijskom analizom – *DSC/TGA*, skenirajući elektronski mikroskop sa energetsko disperzivnim spektrometrom – *SEM-EDS*, induktivno udružen plazma-optički emisioni spektometar *ICP-OES*, *elektrohemijska stanica*, i skenirajuće-sondni mikroskop – *SPM*; i
- Preko MPNTR RS i PIU-JUP, iz okvira projekta OI172037, na TF Bor je decembra 2014.godine stigao i aparat *Xenon Flash Thermal Constant Analyzer* za beskontaktno nedestruktibno ispitivanj termijske difuzivnosti i provodljivosti čvrstih i tečnih supstanci u širem temperaturnom opsegu.

Ova visoko sofisticirana oprema će omogućiti savremen pristup NIR-u i nastavi, posebno na doktorskim studijama, na Fakultetu u oblasti hemijskog, metalurškog inženjerstva i rudarskog inženjerstva. Takodje, ovi kapaciteti će biti od značaja i u pripremi i prijavi predstojećih projekata – kako medjunarodnih, tako i u novom projektnom ciklusu MPNTR RS, te projekata sa privredom.

2. Izdavanje časopisa:

TF Bor izdaje četiri naučna časopisa: *Journal of Mining and Metallurgy, Section B: Metallurgy* (JMMB), *Journal of Mining and Metallurgy, Section A: Metallurgy* (JMMA) (*Journal of Mining and Metallurgy* se od 1997. godine štampa kao međunarodni časopis sa internacionalnim uređivačkim odborom), *Serbian Journal of Management* (SJM) (štampa se od 2006. godine kao međunarodni časopis), i *Reciklaža i održivi razvoj* (štampa se od 2008. godine kao nacionalni časopis). Svi pomenuti časopisi su finansirani od strane MPNTR RS.

Slede podaci o aktuelnom pozicioniranju časopisa koje publikuje TF Bor tokom prethodne godine (prema <http://www.mpn.gov.rs/nauka/razvoj-naucnih-kadrova/53-kategorizacija-casopisa/773-kategorizacija-naucnih-casopisa-2013> i http://kobson.nb.rs/nauka_u_srbiji/kategorizacija_casopisa_33.html):

- *JMM - Section A: Mining* - svrstan je u kategoriju M51 (prema kategorizaciji domaćih naučnih časopisa za energetiku, rудarstvo i energetsku efikasnost)

- *JMM - Section B: Metallurgy* - svrstan je u kategoriju M21 (od 2010.godine); IF(2013)=1.135 i mesto 22/75 u oblasti Metallurgical Engineering, kao i petogodišnji IF(2008-2013)=1.008 i mesto 23/75 u pomenutoj oblasti

- *SJM* - svrstan je u kategoriju M24 (prema kategorizaciji domaćih naučnih časopisa za uređenje, zaštitu i korišćenje voda, zemljišta i vazduha)

- *ROR* - svrstan je u kategoriju M53 (prema kategorizaciji domaćih naučnih časopisa za energetiku, rудarstvo i energetsку efikasnost)

3. Organizacija naučnih skupova:

Tehnički fakultet u Boru u 2014.god. organizovao je i nekoliko skupova:

- *46th International October Conference on Mining and Metallurgy (IOC2014)* –organizatori su TF Bor i IRM Bor, skup je finansiran od strane MPNTR RS (predsednik org.odbora Prof.dr N.Šrbac).
- *22nd International Conference Ecological Truth (Eco-Ist2014)* - organizatori su TF Bor, Zavod za zaštitu zdravlja Timok Zaječar i Društvo mladih istraživača Bor, skup je finansiran od strane MPNTR RS (predsednik org.odbora Prof.dr R.Pantović).
- *10th International May Conference on Strategic Management (IMCSM2014)* – organizator je TF Bor, skup je finansiran od strane MPNTR RS (predsednik org.odbora Prof.dr I.Mihajlović).
- *9. Simpozijum Reciklažne tehnologije i održivi razvoj (SRTOR2014)* – organizator je TF Bor, skup je finansiran od strane MPNTR RS (predsednik org.odbora Doc.dr J.Sokolović).
- *4th International Symposium on Environmental and Materials Flow Management (EMFM2014)* – organizatori su TF Bor, Mašinski fakultet Univerziteta u Zenici (BiH) i Birkefeld Campus University of Applied Science Trier (Germany), (predsednik org.odbora Doc.dr Dj.Nikolić).

U okviru skupova – IMCSM, EciIst, SRTOR - nastavljeno je sa organizacijom odgovarajućih studentskih simpozijuma, a po prvi put u 2014. godini, pokrenut je u okviru IOC i *1st International Student Conference on mining, metallurgy, chemical engineering, material science and related fields*.

4. Potpisani bilateralni sporazumi sa fakultetima u inostranstvu i ugovori sa institucijama iz inostranstva, šk. 2014/15. godini:

1. Faculty of Metallurgy, Technical University of Kosice, Slovakia
2. Chemical Faculty, Buryat State University from Ulan-Ude, Russia
3. Naravoslovnotehniška fakulteta Univerze v Ljubljani, Slovenija
4. Faculty of Engineering, University „Eftimie Murgu“ Resita, Romania
5. Faculty of Economics and Administrative Sciences, University „Eftimie Murgu“ Resita, Romania
6. University of Chemical Technology and Metallurgy, Sofia, Bulgaria
7. Faculty of Chemistry, University Paisii Hilendarski, Plovdiv, Bulgaria
8. Fakultet kemijskog inženjerstva i tehnologije Sveučilišta u Zagrebu, Hrvatska
9. Metalurški fakultet u Sisku Sveučilišta u Zagrebu, Hrvatska
10. Tehnološki fakultet u Zvorniku Univerziteta u Istočnom Sarajevu, RS-Bosna i Hercegovina

11. Tehnološki fakultet u Banjoj Luci Univerziteta u Banjoj Luci, RS-Bosna i Hercegovina
12. Fakultet za metalurgiju i materijale Univerziteta u Zenici, RS-Bosna i Hercegovina
13. Rudarski fakultet u Prijedoru Univerziteta u Banjoj Luci, RS-Bosna i Hercegovina
14. Ekonomski fakultet Univerziteta u Zenici, RS-Bosna i Hercegovina
15. Metalurško - tehnički fakultet u Podgorici Univerziteta u Crne Gore, Crna Gora
16. Tehnološko-metalurški fakultet Skoplje, Univerzitet Sv. Ćirilo i Metodije u Skoplju, Republika Makedonija
17. University American College Skopje, Macedonia
18. Akita University, Akita, Japan
19. International Visegrad Fund, Bratislava, Slovakia

5. Potpisani ugovori o bilateralnoj saradnji sa fakultetima i institucijama iz Srbije, šk. 2014/15. godini:

1. Rudarsko-geološki fakultet u Beogradu Univerziteta u Beogradu
2. Tehnološko-metalurški fakultet u Beogradu Univerziteta u Beogradu
3. Tehnološki fakultet u Novom Sadu Univerziteta u Novom Sadu
4. Fakultet tehničkih nauka u Novom Sadu Univerziteta u Novom Sadu
5. Tehnološki fakultet u Leskovcu Univerziteta u Nišu
6. Fakultet tehničkih nauka u Kosovskoj Mitrovici Univerziteta u Prištini
7. Institut za rударство i metalurgiju u Boru

6. Učešće u akademskim i drugim mrežama:

1. Associated Phase Diagram and Thermodynamics Committee:

Još od 1999. godine, nastavnici i saradnici TF Bor aktivno učestvuju u radu ove naučne organizacije, koja okuplja naučnike iz oblasti termofizike i proračuna faznih dijagrama. Pored naših naučnika, u ovom komitetu su i kolege iz Poljske (AGH Krakov, Institut za proučavanje materijala pri Poljskoj akademiji nauka Krakov), Češke (Masarikov Univerzitet Brno i Institut za fiziku iz Brna), Slovačka (Fakultet za metalurgiju i materijale iz Košice), Mađarske (Metalurški fakultet Univerziteta u Miškolcu), Rumunije (Institut za fizičku hemiju Bukurešt), Bugarske (Departman za hemiju Univerziteta u Plovdivu), Slovenije (NTF Ljubljana), Hrvatske (Metalurški fakultet Sisak), BiH (Fakultet za metalurgiju i materijale Zenica). U okviru ovog komiteta TF Bor je tokom 2014. godine učestvovao na APDTC Discussion Meeting-u, u Krakovu, Poljska. Zajednička saradnja iz okvira ove mreže ostvaruje se trenutno kroz COST projekat COST MP0903 Nano-alloys.

2. Resita Network on Entrepreneurship and Innovation:

Od 2008. godine, Tehnički fakultet u Boru je, kao predstavnik Univerziteta u Beogradu, član Resita Network on Entrepreneurship and Innovation, u čijem sastavu su i sledeći univerziteti: University of applied sciences Wormes, Germany; University of Trier, Germany; University of Salzburg, Austria; GEA College Ljubljana, Slovenia; University of Zenica, BiH; University Eftimie Murgu Resita, Romania; University of Rousse, Bulgaria; University of Bucharest, Romania; University of Montenegro Podgorica, Montenegro; Politecnical University Timisoara, Romania, Open American College Skopje, Macedonia, University of

Tirana, Albania. U okviru ove mreže tokom 2014. godine organizovan je značajan broj aktivnosti – letnja akademija, razmena studenata i profesora, publikovanje radova, a TF Bor je organizovao i jednu studentsku radionicu na B.Jezeru tokom maja meseca.

3. MET-NET mreža:

Od 2008. godine, TF Bor je i član MET-NET mreže metalurških fakulteta, čije su članice svi metalurški fakulteti iz regionala – Slovenije, Hrvatske, BiH, Crne Gore, Makedonije, Slovačke, a očekuje se i širenje mreže članovima iz Poljske, Grčke, Bugarske, Rumunije, Turske, Albanije. Tokom 2014. godine, održano je nekoliko radnih sastanaka u Boru, Zenici i Sisku, bilateralnih poseta, ostvarena je saradnja kroz zajednički organizovane NIR aktivnosti, projekte (ERASMUS+ KA1, program SVIJET, bilaterlani projekat sa Slovenijom), organizovanje zajedničkih skupova, publikovanja radova, učešća u komisijama za dr radove, organizacije stručnih praksi i ekskurzija, i sl.

4. EURAXESS Services mreža:

Potpisivanjem Deklaracije o privrženosti EURAXESS Service mreži i Deklaracije o privrženosti održavanju EURAXESS Jobs portal-a, TF Bor je od 2010. godine deo Nacionalne EURAXESS mreže (www.euraxess.rs) koja brine o mobilnosti istraživača i time se priključila evropskom istraživačkom prostoru.

5. Nacionalna mreža tehnoloških broker-a:

U okviru EU programa integrisane podrške inovacijama, razvijena je nacionalna mreža tehnoloških broker-a, sa ciljem daljeg unapređenja podrške MSP Sektoru. TF Bor je od 2013.godine deo i ove nacionalne mreže, koju čini 11 fakulteta i naučno-istraživačkih institucija iz Srbije.

6. Promocija i popularizacija nauke:

Tokom 2014. godine, TF Bor je nastavio sa svojim tradicionalnim aktivnostima u okviru promocije i popularizacije nauke.

- 3.Festival nauke u Boru: *Naučni tornado 2014*, novembra 2014.
- Izložba *Tajni svet metala i minerala* (autora D.Živković, M.Cocić, J.Lamut, Lj.Balanović), organizovana u Zavičajnom muzeju u Knjaževcu u okviru manifestacije *Noć muzeja*, maja 2014.
- Po prvi put u Boru, na inicijativu prof. dr Dragane Živković, pokrenuta akcija BONIS2014 – *Borska noć istraživača*, septembra 2014.
- Po prvi put, na inicijativu Doc.dr Jovice Sokolovića, organizovan *1.Festival recilkaže* u Zaječaru, septembra 2014. u okviru IX SRTOR-a.

7. Učešće TFBor na sajmovima:

- 58. Međunarodni sajam tehnike u Beogradu 2014.
- 11th EDUfair u Beogradu 2014.
- 59. Medjunarodni sajam knjiga u Beogradu 2014.

- Sajamska manifestacija „ZDRAVO-DOMAĆE-PRIRODNO“ u organizaciji RPK Zaječar, 2014.

8. Mobilnost studenata i nastavnika:

Tokom 2014.godine ostvarena je značajna dolazna mobilnost studenata i nastavnika iz inostranstva na TFBor, kao i odlazna mobilnost studenata i nastavnika TFBor, uglavnom u okviru medjunarodnih projekata i postojećih akademskih mreža.

9. Učešće u radu međunarodnih (evropskih) naučnih tela:

- prof. dr Dragana Živković – član i predstavnik Srbije za COST Domain Committee in *Materials, Physical and Nanosciences* (period 2010-2014.)

10. Gostujući profesori sa TF Bor:

- Na Central South University, State Key laboratory for Powder Metallurgy, Changsha, China: *Prof. dr Dragana Živković*
- na Naravoslovno-tehniškoj fakulteti Univerze v Ljubljani, Slovenija: *Prof. dr Dragana Živković*
- na University American College Skopje, Makedonija: Prof. dr Živan Živković, Prof. dr Ivan Mihajlović, i dr.