

Универзитет у Београду
Технички факултет у Бору
Број: VI/4-9-2
Бор, 19. 05. 2016. године

На основу чл. 47. Статута Техничког факултета у Бору, Наставно-научно веће Факултета, на седници одржаној 19. 05. 2016. године, донело је

ОДЛУКУ

I Усваја се Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2015. години.

II Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2015. години, саставни је део ове Одлуке.

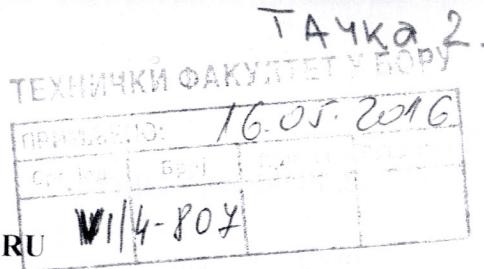
Доставити:

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

ПРЕДСЕДНИК
НАСТАВНО-НАУЧНОГ ВЕЋА



ДЕКАН
Проф. др Драгана Живковић



**Univerzitet u Beogradu
TEHNIČKI FAKULTET U BORU
Nastavno-naučnom veću**

Na osnovu Člana 3. Pравилника о вредновању резултата научног рада наставника и сарадника, на Техничком факултету у Бору, број VI-4/19-4/2 од 27. 05. 2008. године, у даљем тексту **Правилник-1**, Комисија за обезбеђење и унапређење квалитета, у даљем тексту **Комисија**, марта месеца 2016. године, спровела је поступак вредновања резултата научноистраживаčког рада и међunarodне сарадње наставника и сарадника, за претходну 2015. годину.

Nакон спроведеног поступка и обраде добијених резултата Комисија у складу са Чланом 7. Правилника Наставно-научном већу доставља следећи

IZVEŠTAJ

1. OPŠTI DEO

Postupak вредновања спровела је Радна група Комисије коју су чинили:

- Prof. dr Grozdanka Bogdanović, продекан за NIR i MS, руководилац,
- Prof. dr Miodrag Žikić, члан и
- Doc. dr Ljubiša Balanović, члан.

Вредновањем су били обухваћени сvi наставници и сарадници који су у 2015. години били запосленi на Факултету.

Подаци који су анализирани преузети су из документа **Годишњи извештај о резултатима NIR-a 2015. године**, који је Оdlуком број VI/4-7-3 од 25. 03. 2016. године усвојило Наставно-научно веће Факултета, а који чини саставни део овог извештаја.

Вредноване су reference из области научноистраживаčkог рада и међunarodne сарадње наставника и сарадника.

I. Publikovani rezultati

- 1.1. Publikovani радови у међunarodним часописима са IF (Категорије M21-M23)
- 1.2. Publikovani радови у међunarodним часописима без IF (Категорије M24)
- 1.3. Publikovani радови у националним часописима (Категорије M51-M53)
- 1.4. Publikovana pogлавља у monografijama међunarodnog значаја
- 1.5. Publikovane monografije i poglavља у monografijama nacionalnog значаја
- 1.6. Publikovani udžbenici
- 1.7. Citiranost u 2015. години (prema SCOPUS-u)
- 1.8. Saopšteni радови на међunarodnim skupovima
- 1.9. Saopšteni радови на националним skupovima

II. Učešće na projektima

- 2.1. Učešće на међunarodним пројектима
- 2.2. Učešće на пројектима које финансира MPNTR RS
- 2.3. Učešće на пројектима које финансира привреда
- 2.4. Tehničko-razvojna rešenja

Kompletan материјал који се односи на вредновање предат је архиви Факултета, на даље чување.

2. POSEBAN DEO

Nakon obrade podataka dobijenih u postupku vrednovanja, u okviru posebnog dela ovog izveštaja, nisu mogli da budu prikazani pojedinačni izveštaji za svakog nastavnika i saradnika sa ostvarenim rezultatima po nazivu i klasifikaciji (Član 8. Pravilnika-1), na odgovarajućem obrascu (Član 5. Pravilnika-1). Ovo zbog toga što Pravilnik-1 nije usaglašen sa višim pravnim aktom, odnosno Pravilnikom o postupku, načinu vrednovanja i kvantitativnom iskazivanju naučnoistraživačkih rezultata istraživača (SG RS 24/2016), koji je stupio na snagu 16. 03. 2016. godine, **Pravilnik-2**. Neusaglašenost se ogleda u tome što **Pravilnik-1** podrazumeva "stare" koeficijente R, a **Pravilnik-2** "nove" koeficijente M. Zbog toga su pojedinačni rezultati naučnoistraživačkog rada za svakog nastavnika i saradnika (koeficijenti M) sadržani su u **Godišnjem izveštaju o rezultatima NIR-a 2015. godine**,

Imajući prethodno u vidu u **prilogu 1** daje se zbirni prikaz rezultata naučnoistraživačkog rada i međunarodne saradnje, koji su ostvarili nastavnici i saradnici za 2015.godinu, po sada važećoj nomenklaturi, **Pravilnik-2**, odnosno grupama i vrstama rezultata (koeficijenti M).

Upoređivanje ostvarenih rezultata za 2015. godinu sa rezultatima iz prethodnih godina izvršeno je tabelarno i grafički, i prikazano u prilozima:

- Prilog 2-Grafički pregled broja objavljenih radova grupe rezultata M20 i M50,
- Prilog 3-Grafički pregled broja citata u časopisima sa IF (JCR lista),
- Prilog 4-Tabelarni prikaz broja rezultata grupa M30, M60, M70, M80 i M90 i
- Prilog 5-Grafički pregled broja projekata na kojima su učestvovali nastavnici i saradnici

3. ZAKLJUČCI

Nakon sprovedenog postupka vrednovanja i obrade dobijenih podataka zaključeno je sledeće:

1. Vrednovanje je sprovedeno u skladu sa Pravilnikom o vrednovanju rezultata naučnog rada nastavnika i saradnika, na Tehničkom fakultetu u Boru, broj VI-4/19-4/2 od 27. 05. 2008. godine, ali ne upotpunosti.

2. Vrednovani su rezultati koje su ostvarili nastavnici i saradnici u oblasti naučnoistraživačkog rada i međunarodne saradnje.

3. Potrebni podaci preuzeti su iz dokumenta Godišnji izveštaj o rezultatima NIR-a 2015. godine, koji je Odlukom broj VI/4-7-3 od 25. 03. 2016. godine usvojilo Nastavno naučno veće Fakulteta,

4. Vrednovanje je sprovedeno u martu mesecu 2016. godine, a odnosi se na rezultate ostvarene u 2015. godini.

5. Rezultati vrednovanja, u poređenju sa rezultatima postignutim u 2014. godini, ukazuju na sledeće:

- broj radova u međunarodnim časopisima (M20) ima trend blagog opadanja,
- broj radova u domaćim časopisima (M50) ima trend blagog povećanja,
- povećan je broj i citiranost autora u 2015.godini,
- broj saopštenja na međunarodnim skupovima (M30) značajno je povećan,
- broj saopštenja na domaćim skupovima (M60) je na istom nivou,
- broj MSc i Dr radova (M70) je značajno povećan,
- broj tehničko-razvojnih rešenja (M80) je povećan
- broj međunarodnih projekata ima trend blagog opadanja,
- broj domaćih projekata MPNTR RS je na istom nivou i

-broj projekata iz privrede je neznatno povećan.

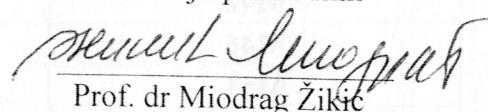
6. S obzirom da se kvalitet naučno-istraživačkog rada meri preko broja publikovanih radova u časopisima sa IF i ostvarenim citatima (prema SCOPUS-u), vrednovani rezultati tokom 2015.godine se mogu smatrati veoma uspešnim. Na slikama u prilogu 2 i 3 je prikazan trend broja publikovanih radova i ostvarenih citata, od 2007.godine od kada se ovi rezultati mere na Tehničkom fakultetu u Boru. Dobijeni rezultati pokazuju trend pozitivnog rasta.

7. Zadovoljavajuće angažovanje na projektima 2010 – 2015. godine obavezuje sve istraživače da ostvare predvidjene rezultate, što bi im omogućilo nastavak istraživanja i učešće u novom projektnom ciklusu od 2016-2019.

6. S obzirom na to da se na Fakultetu primenjuje Pravilnik-1 iz 2008. godine i da su uočene neusaglašenosti sa dugim dokumentima članovi Komisije predlažu da Nastavno-naučno veće Fakulteta donese odluku da pravna služba izvrši izmene tog Pravilnika, odnosno njegovo usaglašavanje sa drugim dokumentima i sprovede proceduru za njihovo usvajanje.

U Boru, april 2016. godine

za Komisiju predsednik


Prof. dr Miodrag Žikić

Prilozi:

1. Tabelarni zbirni prikaz rezultata NIR i MS za 2015. godinu
2. Grafički pregled broja objavljenih radova grupe rezultata M20 i M50,
3. Grafički pregled broja citata u časopisima sa IF (JCR lista),
4. Tabelarni prikaz broja rezultata grupa M30, M60, M70, M80 i M90 i
5. Grafički pregled broja projekata na kojima su učestvovali nastavnici i saradnici

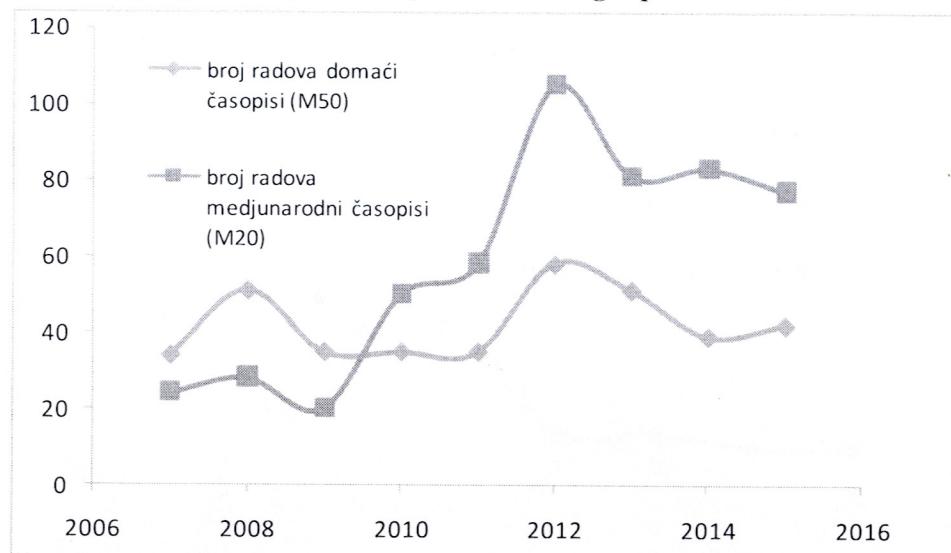
Dostavljeno:

- 1x Nastavno-naučnom veću
1x Arhivi Fakulteta
1x Arhivi Komisije

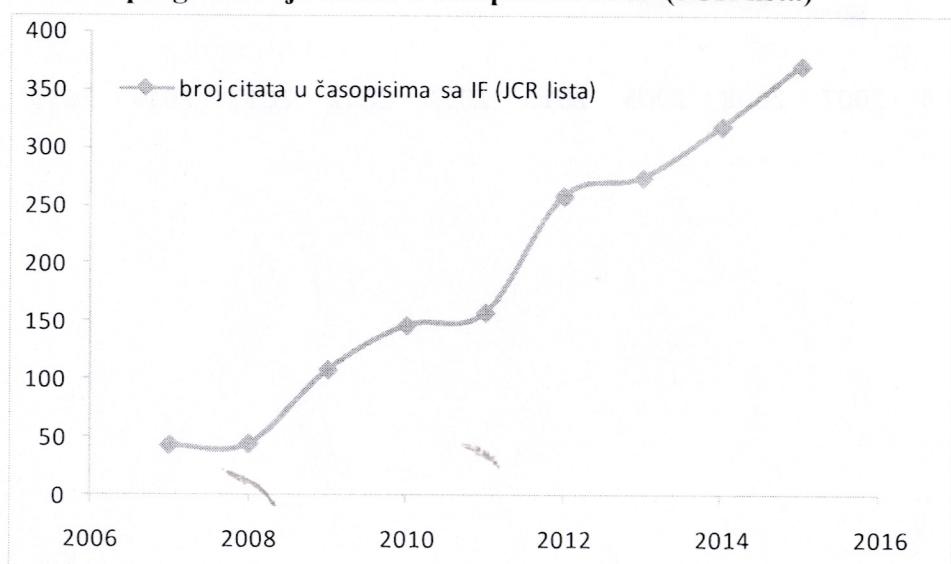
Prilog 1-Zbirni prikaz rezultata NIR i MS za 2015. godinu

Tip rezultata/kategorija prema MPN	Broj ostvarenih rezultata	UKUPNO
M13	1	
M14	3	M10 - 4
M21	14	
M22	14	
M23	29	M20 - 74
M24	16	
M28	1	
M31	10	
M32	2	
M33	154	M30 - 196
M34	25	
M36	5	
M42	1	M40 - 3
M46	2	
M51	13	
M52	20	
M53	9	M50 - 45
M55	2	
M56	1	
M61	1	
M63	14	
M64	18	M60 - 34
M66	1	
M71	8	M70 - 8
M82	3	
M83	3	M80 - 6
Udžbenici	3	3
Citiranost	157 radova citirano 371 put	
Međunarodni projekti	7	
Projekti finansirani od MPN RS	27	
Projekti finansirani od privrede i ostali projekti	12	
Organizovani naučni skupovi	3 međunarodna naučna skupa kao organizatori + 1 nacionalni sa međunarodnim učešćem kao organizatori + 2 međunarodna naučna skupa kao suorganizatori (1 medjunarodni studentska konferencija + 2 nacionalna studenska simpozijuma)	
Publikovani časopisi	4	

Prilog 2-Grafički pregled broja objavljenih radova grupe rezultata M20 i M50



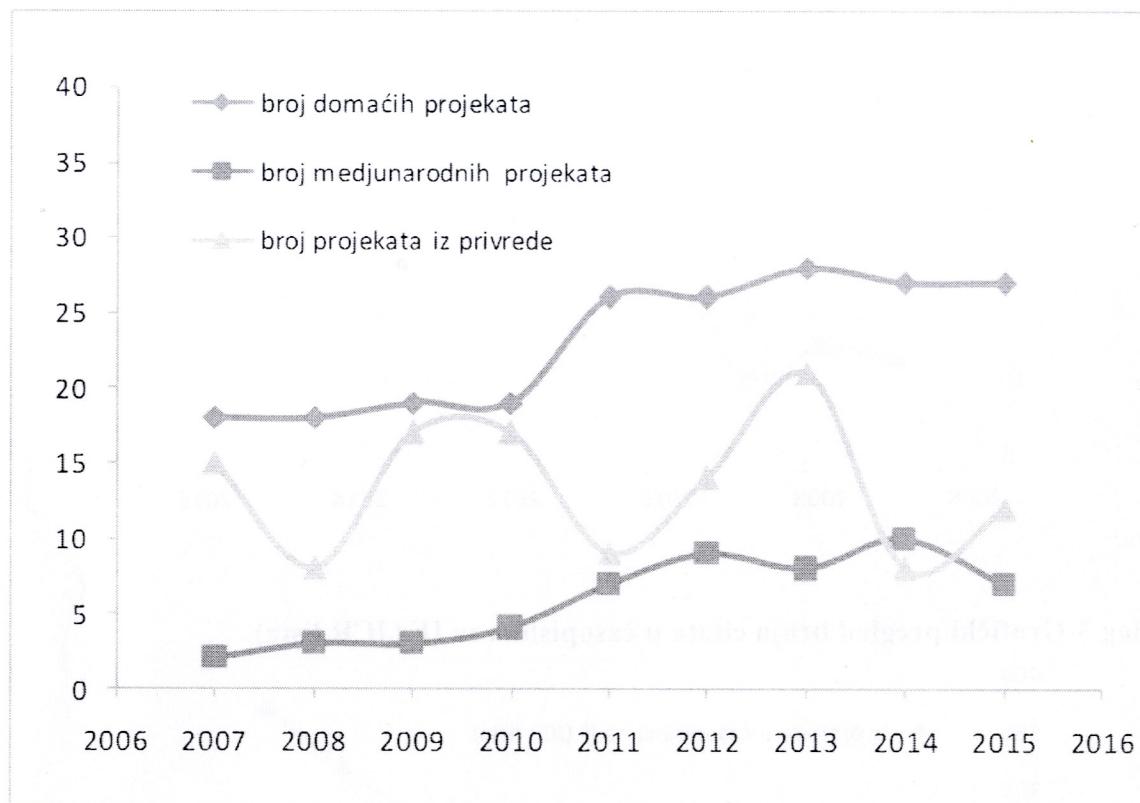
Prilog 3-Grafički pregled broja citata u časopisima sa IF (JCR lista)



Prilog 4-Tabelarni prikaz broja rezultata grupa M30, M60, M70, M80 i M90

Godina	2010	2011	2012	2013	2014	2015
broj saopštenja na međ.skupovima (M30)	107	179	161	174	165	191
broj saopštenja na dom.skupovima (M60)	68	79	70	44	32	33
broj MSc i Dr radova (M70) (odnosi se samo na zaposlene na TF Bor)	9	1	8	8 (3+5)	1	9 (1+8)
broj tehničko-razvojnih rešenja (M80)	6	2	8	9	4	6
broj autorskih izložbi (M90)	0	0	0	1	1	0

Prilog 5-Grafički pregled broja projekata na kojima su učestvovali nastavnici i saradnici



Продекан за НИР

Универзитет у Београду
Технички факултет у Бору
Број: VI/4-9-2
Бор, 19. 05. 2016. године

На основу чл. 47. Статута Техничког факултета у Бору, Наставно-научно веће Факултета, на седници одржаној 19. 05. 2016. године, донело је

ОДЛУКУ

I Усваја се Извештај о Научно истраживачком раду и међународној сарадњи у 2015. години.

II Извештај о Научно истраживачком раду и међународној сарадњи у 2015. години, саставни је део ове Одлуке.

Доставити:

- председнику Комисије
- продекану за НИР
- архиви



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



**GODIŠNJI IZVEŠTAJ
O REZULTATIMA NIR-A
2015. godina**

Bor,

14. mart 2016.

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

2015. godina

O S N O V N I P O D A C I

Izveštaj o radu u oblasti NIR-a i medjunarodne saradnje na Tehničkom fakultetu u Boru za 2015. 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 i 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 2015. godine, predstavljenih u prilogu datom u produžetku ovog teksta, mogu se izvući **osnovni podaci**:

1. Publikovani radovi u medjunarodnim časopisima kategorije M10+M20: **4+73=77 radova**
2. Publikovani radovi u nacionalnim časopisima kategorije M50: **42 rada**
3. Citiranost u 2015.godini: **157 radova citirano 371 put**
4. Publikovane monografije, zbornici radova, udžbenici: **4** zbornika sa medjunarodnih naučnih skupova kategorije M30 i **3** udžbenika
5. Saopšteni radovi na medjunarodnim (M30) i nacionalnim (M60) skupovima: **191+33=224 rada**
6. Angažovanje na projektima:
 - 6.1. Međunarodni projekti: **7**
 - 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: **12**
 - 6.4. Tehničko-razvojna rešenja: **6 (3-M82 + 3-M83)**

Na samom početku ovog izveštaja, treba napomenuti da je najznačajnija aktivnost u domenu NIR-a u prethodnoj godini bila još jedna, treća po redu, uspešno sprovedena akreditacija, a Odluka o akreditaciji TF Bor kao NIO za 2015. godinu data je na linku:

http://www.tfbor.bg.ac.rs/akreditacija/doc/akreditacija_nio_2015.pdf, kao i u okviru ovog izveštaja:

Република Србија
МИНИСТАРСТВО ПРОСВЕТЕ,
НАУКЕ И ТЕХНОЛОШКОГ РАЗВОЈА
Одбор за акредитацију
научноистраживачких организација
Број: 660-01-00012/3
07.07.2015. године
Београд

ТЕХНИЧКИ ФАКУЛТЕТ У БОРУ

ПРИМЕРДОДА		27.07.2015.	
Дан/Једи	Б-б-б	Примат	Бригада/Б
27	2015		

На основу члана 18. став 1, тачка 2. члана 19. став 2. и став 7. Закона о научноистраживачкој делатности („Службени гласник РС”, број 110/05, 50/06 – исправка и 18/10) и основу члана 5. и 10. Правилника о вредновању научноистраживачког рада и поступку акредитације научноистраживачких организација („Службени гласник РС”, број 90/06), а на захтев Техничког факултета у Бору. Улица војске Југославије број 12, број захтева: I/1-310 од 06.03.2015. године,

Одбор за акредитацију научноистраживачких организација на седници одржаној 07.07.2015. године, донео је

ОДЛУКУ

1. АКРЕДИТИСУЈЕ СЕ ТЕХНИЧКИ ФАКУЛТЕТ У БОРУ, Улица војске Југославије број 12, као државни факултет у области техничко-технолошких наука - металургија, рударство, технологија и менаджмент, за обављање научноистраживачке делатности јер испуњава услове прописане у члану 5. и 10. Правилника о вредновању научноистраживачког рада и поступку акредитације научноистраживачких организација („Службени гласник РС”, број 90/06).

2. Ову одлуку доставити Министарству просвете, науке и технолошког развоја ради уписа у Регистар научноистраживачких организација и Факултету, подносиоцу захтева за акредитацију.

ОБРАЗЛОЖЕЊЕ

ТЕХНИЧКИ ФАКУЛТЕТ У БОРУ поднео је Министарству просвете, науке и технолошког развоја - Одбору за акредитацију научноистраживачких организација захтев за акредитацију и оцену о испуњености услова за обављање научноистраживачке делатности од опште интереса, у складу са Правилником о вредновању научноистраживачког рада и поступку акредитације научноистраживачких организација („Службени гласник РС”, број 90/06) (у даљем тексту: Правилник) и у складу са Законом о научноистраживачкој делатности („Службени гласник РС”, број 110/05, 50/06 - исправка и 18/10) (у даљем тексту: Закон).

Уз захтев, Факултет је доставио прописану документацију.

Разматрајући захтев Факултета, и увидом у приложену документацију, утврђено је следеће:

Технички факултет у Бору испуњава све критеријуме из члана 5. став 1. тичке 1. до 13. Правилника о вредновању научноистраживачког рада и поступку акредитације научноистраживачких организација, и има:

- број научноистраживачких пројеката реализованих у последњих пет година а које је финансирало Министарство; број научноистраживачких пројеката чије је реализације у току; пројекте које је реализовао у оквиру међународне научне

- сврђање, у сарадњи са привредом или на тржишту као и квалитет пројектата чија је реализација у тоју изражен кофинансијентом који је утврдио Министарство.
- структуре истраживача; најзначајније научноистраживачке резултате у последњих пет година на пројектима које је (су)финансијирало Министарство; најзначајније резултате остварене у међународним пројектима у последњих пет година; најзначајније резултате пројекта остварене у сарадњи са привредом и на тржишту, односно применљене резултате у привреди и комерцијализације на тржишту;
 - издвајачку делатност (периодичне и монографске публикације); одговарајући простор; вредну и квалифетну опрему према врстама истраживања и број истраживача; научно информативну документацију (домаћа и страна научна периодика и монографска листа).

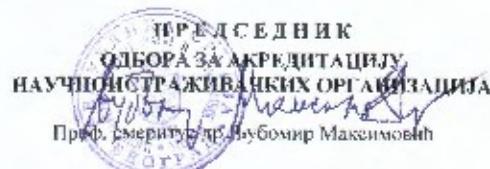
ТЕХНИЧКИ ФАКУЛТЕТ У БОРУ испуњава и критеријуме из члана 10. Правилника о вредновању научноистраживачког рада и поступку акредитације научноистраживачких организација:

1. поседује решење о испуњености услова за почетак рада и обављање делатности издато од стране министарства надлежног за високо образовање;
2. уписан је у регистар високошколских установа који води министарство надлежно за високо образовање;
3. има 70% наставника у јачину односу на пуним радним временом од укупног броја предмета за сваки акредитовани студијски програм – 53 наставника и то седамнаест (17) редовних професора, петнаест (15) ванредних професора и двадесет једног (21) доцента;
4. има дозволу за рад издату од стране министарства надлежног за високо образовање;
5. има одговарајући простор и опрему за обављање научноистраживачког рада, које утврђује одговарајући стручни тим Одбора за акредитацију у складу са прихваћеним стандардима и нормативима за сваку област научноистраживачког рада;
6. има програм научноистраживачког рада;
7. има програм развоја научноистраживачког подсавета;
8. има научно - информативну документацију или библиотечко - информациони центар;
9. обавља трансфер знања и технологија;
10. резултатима научноистраживачког рада доприноси развоју науке, односно доноси оштету фонду знања.

Имајући у виду напред наведене чињенице, одлучно је да у диспозитиву ове одлуке.

ПОУКА О ПРАВНОМ ЛЕКУ:

Факултет из тачке 1. ове одлуке, односно оснивач наведеног факултета има право да поднесе жалбу Националном савету за научни и технолошки развој у року од 30 дана од дана пријема Одлуке о акредитацији.

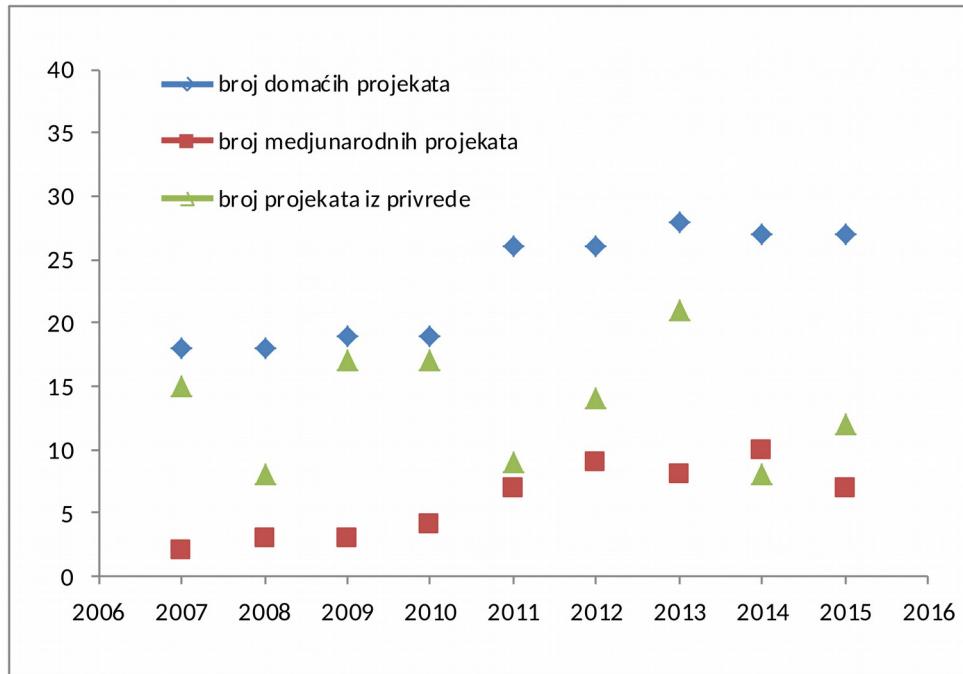


Zbirni prikaz rezultata NIR-a za 2015. godinu dat je u Tab. 1.

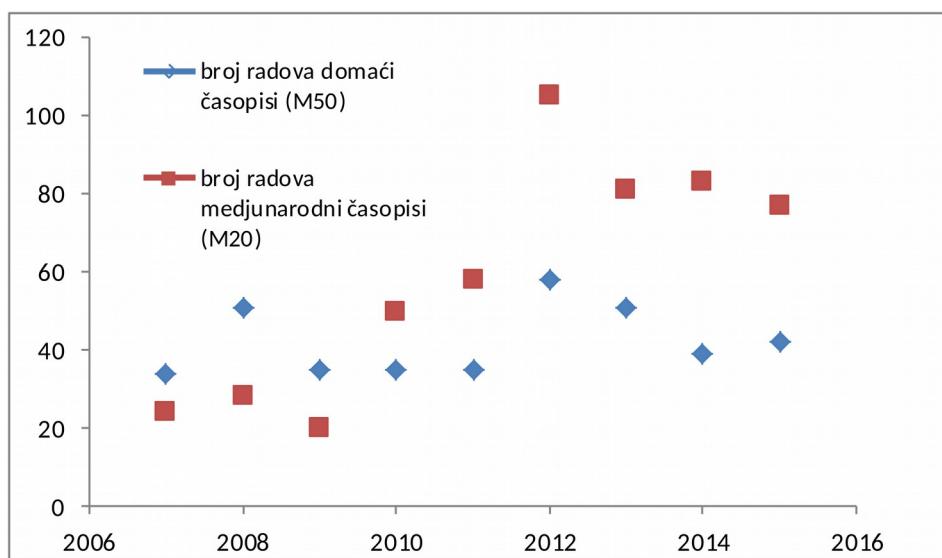
Tabela 1. Zbirni prikaz rezultata NIR & MS za UB, TFB – godina 2015.

NIR & MS rezultati 2015. PREGLED ZA UB, TF BOR		
Tip rezultata/kategorija prema MPN	Broj ostvarenih rezultata	UKUPNO
M13	1	M10 - 4
M14	3	
M21	14	M20 - 74
M22	14	
M23	29	M30 - 196
M24	16	
M28	1	M40 - 3
M31	10	
M32	2	M50 - 45
M33	154	
M34	25	M60 - 34
M36	5	
M42	1	M70 - 8
M46	2	
M51	13	M80 - 6
M52	20	
M53	9	3
M55	2	
M56	1	157 radova citirano 371 put
M61	1	
M63	14	7
M64	18	
M66	1	27
M71	8	
M82	3	12
M83	3	
Udžbenici	3	3 medjunarodna naučna skupa kao organizatori + 1 nacionalni sa medjunarodnim učešćem kao organizatori + 2 medjunarodna naučna skupa kao suorganizatori (1 medjunarodni studentska konferencija + 2 nacionalna studenska simpozijuma)
Citiranost	157 radova citirano 371 put	
Međunarodni projekti	7	4
Projekti finansirani od MPN RS	27	
Projekti finansirani od privrede i ostali projekti	12	4
Organizovani naučni skupovi	3 medjunarodna naučna skupa kao organizatori + 1 nacionalni sa medjunarodnim učešćem kao organizatori + 2 medjunarodna naučna skupa kao suorganizatori (1 medjunarodni studentska konferencija + 2 nacionalna studenska simpozijuma)	
Publikovani časopisi	4	

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



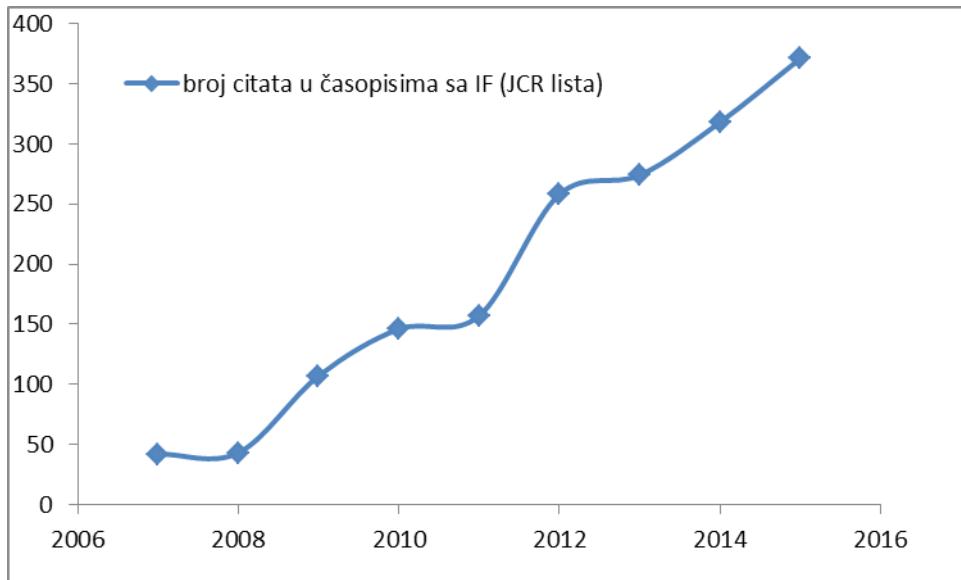
Sl.1. Komparativni prikaz broja projekata na TF Bor u periodu 2007. - 2015. god.



Sl.2. Komparativni prikaz broja radova (M20 i M50) na TF Bor u periodu 2007. - 2015. god.

Tabela 2. Komparativni prikaz broja rezultata kategorija M30, M60, M70, M80 i M90 u periodu 2010. - 2015. god.

Godina	2010	2011	2012	2013	2014	2015
broj saopštenja na medj.skupovima (M30)	107	179	161	174	165	191
broj saopštenja na dom.skupovima (M60)	68	79	70	44	32	33
broj MSc i Dr radova (M70) (odnosi se samo na zaposlene na TF Bor)	9	1	8	8 (3+5)	1	9 (1+8)
broj tehničko-razvojnih rešenja (M80)	6	2	8	9	4	6
broj autorskih izložbi (M90)	0	0	0	1	1	0



Sl.3. Komparativni prikaz broja citata na JCR listi - TF Bor, period 2007. - 2015. god.

Iako se prethodno predstavljen ukupni rezultati aktivnosti iz oblasti NIR-a i MS-a mogu smatrati zadovoljavajućim imajući u vidu opšte aktuelno stanje i postojeće probleme u nauci u Srbiji uopšte, realno sagledavanje situacije i poređenje sa prethodnim periodom ukazuje na blagi kvantitativni pad rezultata, posebno u broju publikovanih radova kategorija M20 (2012.- 97, 2013. - 81, 2014. - 83, 2015. -77) i M50 (2012.- 58, 2013.- 51, 2014. - 39, 2015. - 42) (Sl.2.). Obzirom na bitno povećan broj podmladjenog kadra u zadnjih par godina, realno je očekivati značajnije rezultate njihovih aktivnosti u oblasti NIR-a u odnosu na stanje dobijeno uvidom u rezultate iz 2015. godine. U narednom periodu treba posebno insistirati na aktivnijem učešću svih istraživača sa TF Bor u ukupnom broju radova, a posebno mladih - asistenata, doktorskih studenata i docenata, usled pooštrenih kriterijuma izbora u nastavna zvanja, kao i evaluacije na projektima MPNTR.

Manje poboljšanje se uočava u povećanju broja saopštenja na skupovima medjunarodnog značaja (2012.- 161, 2013.-174, 2014.-165 i 2015.-191) i citiranosti (2012.- 111 radova citirano 258 puta, 2013.- 112 radova citirano 274 puta, 2014.- 145 radova citirano 318 puta i 2015.- 157 radova citirano 371 puta).

Što se citiranosti tiče, uočava se povećana heterogenost citiranih autora, ali se i dalje izdvaja nekoliko istraživačkih grupa i pojedinaca u ukupnoj citiranosti za 2015. godinu, i to posebno: prof. dr Milan Antonijević – 31 rad citiran 129 puta (ukupni broj radova 71) i prof. dr Dragana Živković – 39 radova citirano 62 puta (ukupni broj radova 208). (Navedeni podaci se odnose na citiranost bez autocitata.)

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

- 11 radova - *Field: Metallurgy & Metallurgical Engineering*
- 5 rada - *Field: Materials Science, Multidisciplinary*
- 4 rada - *Field: Mining & Mineral Processing*
- 3 rada - *Field: Environmental Sciences*
 - Field: Chemistry, Analytical*
 - Field: Engineering, Electrical & Electronic*
- 2 rada - *Field: Chemistry, Multidisciplinary*
 - Field: Engineering, Multidisciplinary*
 - Field: Engineering, Chemical*
 - Field: Electrochemistry*
 - Field: Materials Science, Ceramics*
 - Field: Engineering, Environmental*
 - Field: Materials Science, Characterization & Testing*
 - Field: Mathematics*
- 1 rad - *Field: Engineering, Civil*
 - Field: Engineering, Multidisciplinary*
 - Field: Materials Science, Chemical*
 - Field: Multidisciplinary Sciences*
 - Field: Materials Sceince, Textiles*
 - Field: Chemistry, Applied Engineering, Chemical*
 - Field: Psychology, Multidisciplinary*
 - Field: Computer Science, Interdisciplinary Applications*
 - Field: Computer Science, Artificial Intelligence*
 - Field: Automation, Control System*
 - Field: Instruments, Instrumentation*
 - Field: Information Science, Library Science*
 - Field: Thermodynamics*

U oblasti saradnje sa privredom, ne postoji značajnija promena u odnosu na prethodnu godinu, kada su u pitanju studije, elaborati i tehničke kontrole rudarskih projekata (2012.-14, 2013.-21, 2014.-8 i 2015.-12).

Vezano za tekući projektni ciklus kod MPNTR, i dalje su prisutni stalni materijalno-finansijski problemi, ali je u 2015.godini pored materijala za rad i sitnije opreme, naručenih preko PIU-JUP-a, nabavljena i sledeća oprema:

- EPI-Fluorescent Microscope,
- Lab.reaktor LR1000 Basic S99 Komplet,
- Multiparametar Bench Photometer for Lab.

S obzirom da je sredinom 2014. godine stigla i instalirana sledeća kapitalna oprema na Tehnički fakultet u Boru (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, elektrohemiska stanica, skenirajuće-sondni mikroskop – SPM; i aparat Xenon Flash Thermal Constant Analyzer za beskontaktno nedestruktibno ispitivanje termijske difuzivnosti i provodljivosti čvrstih i tečnih supstanci u širem temperaturnom opsegu), pružaju se brojne mogućnosti studentima i nastavnom osoblju u cilju poboljšanja osnovnih i primenjenih istraživanja i poboljšanja ukupnih rezultata u oblasti NiR-a.

Kao i svake godine, potpisani su brojni bilateralni sporazumi i ugovori o poslovno-tehničkoj saradnji sa relevantnim visokoškolskim organizacijama, naučnim institutima i drugim ustanovama iz srodnih oblasti iz Srbije i inostranstva.

Nastavljen je i uspešan rad akademskih mreža u kojima je TF Bor aktivni 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 povoljnju klimu za razvoj daljih aktivnosti u smislu medjunarodne razmene studenata i nastavnog osoblja.

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 2015/2016 isto kao u prethodnoj godini. Fakultet je nastavio da izdaje svoja četiri tradicionalna časopisa: Journal of Mining and Metallurgy, Section A: Mining (JMM-A); Journal of Mining and Metallurgy, Section B: Metallurgy (JMM-B), Serbian Journal of Management (SJM) i Reciklaža i održivi razvoj (ROR).

Tokom protekle godine, Fakultet je uspešno organizovao četiri naučna skupa:

- 23rd International Conference Ecological Truth (Eco-Ist 2015), Kopaonik, 17-20. jun 2015
- 11th International May Conference on Strategic Management (IMCSM2015), Bor, 29-30. maj 2015.
- X International Symposium on Recycling Technologies and Sustainable Development (ISRTSD 2015), Bor, 4-7 novembar 2015
- 7th Symposium on Thermodynamics and Phase Diagram (TDPD2015), Bor, 7-9. Jun 2015.

Kao su-organizator, TF Bor je učestvovao u organizaciji sledećih skupova:

- 47th International October Conference on Mining and Metallurgy (IOC2015), Borsko jezero, 4-6 oktobar 2015.
- 5th International Symposium on Environmental and Materials Flow Management (EMFM2015), Zenica, 5-7. novembra 2015.

Organizovana su i tri studentska naučna skupa. 2nd International student conference on Geology, Mining, Metallurgy, Chemical engineering, Material Science and related fields (ISC2015) organizovana kao samostalni studentski skup u periodu od 13-14. jula 2015. u suorganizaciji sa Imperial College London

(Society of economic geology chapter), London (UK). U okviru skupova – IMCSM i ISRTSD nastavljeno je sa organizacijom sledećih studentskih simpozijuma: Studenski simpozijum o strategijskom menadžmentu i 4. Studenski simpozijum “Recklažne tehnologije i održivi razvoj”.

Tokom 2015. godine su nastavljene i započete akcije vezane za promociju i popularizaciju nauke kod mladih – održan je 4. Festival nauke - Karavan nauke Timočki Naučni Tornado “TNT 15” u Boru (učesnici na projektu pored TF Bor su: OŠ “Duško Radović” Bor i Društvo mladih istraživača Bor) i 2. Festival nauke TNT Zaječar “TNT 15”, u saradnji sa OŠ “Desanka Maksimović” u Zaječaru. Po prvi put je izvršena i promocija nauke u Negotinu organizovanjem 1. Festivala nauke TNT Negotin “TNT 15” u saradnji sa OŠ “Vuk Karadžić” Negotin. Dalje, po drugi put u Boru, septembra 2015.godine održana je manifestacija BONIS 2015 - Borska noć istraživača, na kojoj je učestvovao veliki broj studenata, asistenata i saradnika.

TF Bor je u prošloj godini imao i zapaženo učešće na četiri sajma, i to:

- 59. Međunarodni sajam tehnike i tehničkih dostignuća u Beogradu, 11. do 15. maja 2015.god..
- 12th EDUfair u Beogradu, 2015.
- 60. Međunarodni sajam knjiga u Beogradu, 2015.
- 8. Sajam obrazovanja Zvonce (28. oktobra do 1.novembra 2015.) koji je održan u okviru 60. Međunarodnog sajma knjiga u Beogradu.

Na osnovu izloženog, može se videti da su rezultati u oblasti NIR-a i medjunarodne saradnje tokom 2015.godine iako zadovoljavajući, nešto 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), te je potrebno zaključiti da je neophodno raditi na njihovom poboljšanju u narednom periodu.

Podnositelj izveštaja

Prof. dr Grozdanka Bogdanović

Grozdanica

Prodekan za NIR i MS TF Bor

U Boru, 14. marta 2016.godine

Prilog 1.

**PREGLED REZULTATA NIR-A KOJE SU OSTVARILI NASTAVNICI I
SARADNICI TF BOR U 2015. GODINI**

Tip rezultata/kategorija prema MPN	Broj ostvarenih rezultata
M13	1
M14	3
M21	14
M22	14
M23	29
M24	16
M28	1
M31	10
M32	2
M33	154
M34	25
M36	5
M42	1
M46	2
M51	13
M52	20
M53	9
M55	2
M56	1

M61	1
M63	14
M64	18
M66	1
M71	8
M82	3
M83	3
Udžbenici	3

M13 - 1

1. J. Đoković, R. Nikolić: Influence of temperature on protective nano coatings delamination, In "Comprehensive Guide for Nanocoatings Technology, Volume 2: Characterization and Reliability", Editors: Edited by Mahmood Aliofkhazraei , Publisher: Nova Publishers, Inc., New York,, ISBN 978-1-63482-646-4, pp. 61 - 86, 2015.

M14 - 3

1. D. Brodić, A. Amelio, Z. Milivojevic: Characterization and Distinction Between Closely Related South Slavic Languages on the Example of Serbian and Croatian, Editors: G. Azzopardi and N. Petkov, Publisher: Springer-Verlag, Printed by Springer International Publishing Switzerland, ISBN 978-3-319-23191-4, pp. 654 - 666, 2015.
2. D. Brodić, A. Amelio, M. Jevtić: Classification of German Scripts by Adjacent Local Binary Pattern Analysis of the Coded Text, Editors: Bikakis, Antonis, Zheng, Xianghan , Publisher: Springer-Verlag International, Printed by Springer International Publishing, ISBN 978-3-319-26181-2, pp. 233 - 244, 2015.
3. D. Brodić, A. Amelio, Z. Milivojevic: Classification of the Scripts in Medieval Documents from Balkan Region by Run-length Texture Analysis, Editors: Arik, S., Huang, T., Lai, W.K., Liu, Q. , Publisher: Springer-Verlag International, Printed by Springer International Publishing Switzerland, ISBN 978-3-319-26532-2, pp. 442 - 450, 2015.

M21 – 14

1. S. Alagić, S. Tošić, M. Dimitrijević, M. Antonijević, M. Nujkić: Assessment of the quality of polluted areas based on the content of heavy metals in different organs of the grapevine (*Vitis vinifera*) cv Tamjanika, Environmental Science and Pollution Research, ISSN 0944-1344, Vol. 22, No. 9, pp. 7155 - 7175, 2015, [Impact factor (IF) 2.828/2014] *Field: Environmental Sciences*
2. S. Tošić, S. Alagić, M. Dimitrijević, A. Pavlović, M. Nujkić: Plant parts of the apple tree (*Malus* spp.) as possible indicators of heavy metal pollution, AMBIO: a journal of the human

environment, ISSN 0044-7447, pp. , 2015, [Impact factor (IF) 2.641/2014] *Field: Engineering, Environmental*

3. E. Malkowsky, I. Đolović, K. Petković: Two Methods for the Characterization of Compact Operators Between BK Spaces, Banach Journal of Mathematical Analysis, Vol. 9, No. 3, pp. 1 - 13, 2015, [Impact factor (IF) 1.050/2014] *Field: Mathematics*
4. I. Milošević, D. Živković, D. Manasijević, D. Nikolic: The effects of the intended behavior of students in the use of M-learning, Computers in Human Behavior, ISSN 0747-5632, Vol. 51, No. /, pp. 207 - 215, 2015, [Impact factor (IF) 2.694/2015] *Field: Psychology, Multidisciplinary*
5. E. Požega, S. Ivanov, Z. Stević, L. Karanović, R. Tomanec, L. Gomidželović, A. Kostov : Identification and characterization of single crystal Bi₂Te₃-xSex alloy, Transactions of Nonferrous Metals Society of China , ISSN 1003-6326 , Vol. 25, No. 10, pp. 3279 - 3285, 2015, [Impact factor (IF) 1.178/2014] *Field: Metallurgy & Metallurgical Engineering*
6. L. Gomidželović, E. Požega, A. Kostov, N. Vuković, V. Krstić, D. Živković, L. Balanović: Thermodynamics and characterization of shape memory Cu-Al-Zn alloys, Transactions of Nonferrous Metals Society of China (English Edition), ISSN 1003-6326 , Vol. 25, No. 8, pp. 2630 - 2636, 2015, [Impact factor (IF) 1.178/2014] *Field: Metallurgy & Metallurgical Engineering*
7. V. Čosović, D. Minić, D. Manasijević, M. Premović, I. Dervišević, D. Živković: Experimental investigation and thermodynamic calculations of the Ag–Ga–Zn phase diagram, Journal of Alloys and Compounds, ISSN 0925-8388, Vol. 632, pp. 783 - 793, 2015, [Impact factor (IF) 2.999/2014] *Field: Materials Science, Multidisciplinary; Metallurgy & Metallurgical Engineering*
8. D. Živković, M. Niculović, D. Manasijević, D. Minić, V. Čosović, M. Sibinović: Bibliometric trend and patent analysis in nano-alloys research for period 2000-2013, Recent Patents on Nanotechnology, ISSN 1872-2105, Vol. 9, No. 2, pp. 126 - 138, 2015, [Impact factor (IF) 2.575/2014] *Field: Materials Science, Multidisciplinary*
9. D. Minić, M. Premović, D. Manasijević, V. Čosović, D. Živković, A. Marković: Experimental investigation and thermodynamic calculations of the Ag–Bi–Ga phase diagram, Journal of Alloys and Compounds, ISSN 0925-8388, Vol. 646, pp. 461 - 471, 2015, [Impact factor (IF) 2.999/2014] *Field: Materials Science, Multidisciplinary; Metallurgy & Metallurgical Engineering*
10. B. Maluckov: Bioassisted phytomining of gold, JOM: Journal of the Minerals, metals, and Materials Society, Vol. 67, No. 5, pp. 1075 - 1078, 2015, [Impact factor (IF) 1.757/2014] *Field: Metallurgy & Metallurgical Engineering; Mining & Mineral Processing*
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Prilog 3.

SPISAK DOMAĆIH PROJEKATA NA KOJIMA SU U PERIODU OD 2011-2015.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 rukovodioći projekta sa TF Bor)

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

III projekti - 4 projekta

Red. broj	Naziv projekta	Istraživači	Oblast	Broj projekta	Nosilac 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	Dragan Milanović
2.	``Monitoring elektromagnetnih 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	Dušan Sokolović
3.	``Zajednička istraživanja i uticaja jonizujućeg i UV zračenja u oblasti medicine i zaštite životne sredine``	Čedomir Maluckov	III	43011 (58/110)	Elektronski fakultet u Nišu	Goran Ristić
4.	``Magmatizam i geodinamika balkanskog poluostrva od mezozoika do danas: značaj za obrazovanje metaličnih i nemetaličnih rudnih ležišta``	Miodrag Banješević	OI	176016 (130/395)	Rudarsko-geološki fakultet u Beogradu	Vladica Cvetković
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	Miroslav Trajanović
6.	``Minerali Srbije: Sastav, geneza, primena i doprinos održavanju životne sredine``	Mira Cocić	OI	176010 (387/395)	Rudarsko-geološki fakultet u Beogradu	Mihovil Logar
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	Amalija Tripković
8.	``Uticaj rudarskog otpada iz RTB-a Bor na zagađenje vodotokova sa predlogom mera i postupaka za smanjenje štetnog dejstva na životnu sredinu``	Dejan Antić	TP	37001 (105/275)	Institut za rudarstvo i metalurgiju Bor	Mile Bugarin

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 rudarstvo i metalurgiju Bor	Dragan Milivojević
10.	``Funkcionalna analiza, stohastička analiza i primene``	Ivana Đolović, I. Radojević	OI	174007 (146/395)	Prirodno matematički fakultet u Nišu	Dragan Đorđević
11.	``Razvoj naprednih materijala i tehnologija za multifunkcionalnu primenu zasnovanih na ekološkom znanju``	Vladimir Despotović, Dejan Tanikić	TR	34005 (128/275)	Institut za rudarstvo i metalurgiju Bor	Ana Kostov
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 Milošević	TR	34023 (50/275)	Tehnički fakultet u Boru	Nada Šrbac
13.	``Razvoj novih i unapređenje postojećih tehnoloških postupaka proizvodnje tehničkih tekstilnih materijala``	Snežana Urošević	TR	34020 (188/275)	Tehnološki fakultet u Leskovcu	Miodrag Stamenković
14.	``Neki aspekti rastvaranja metala i prirodnih minerala``	Milan Antonijević, Snežana Milić, Grozdana Bogdanović, Mile Dimitrijević, Marija Petrović, Milan Radovanović, Ana Stamenković, Maja Trumić	OI	172031 (184/110)	Tehnički fakultet u Boru	Milan Antonijević
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	Branko Bugarski
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,	TR	33007 (200/275)	Institut za tehnologiju nuklearnih i drugih mineralnih	Vladan Milošević

		Zoran Štirbanović			sировина Београд	
17.	``Savremeni višekomponentni metalni sistemi i nanostrukturni materijali sa različitim funkcionalnim svojstvima''	Dragana Živković, Živan Živković, Dragan Manasijević, Ljubiša Balanović, Uroš Stamenković	OI	172037 (4/395)	Tehnički fakultet u Boru	Dragana Živković
18.	``Dinamika hibridnih sistema''	Jelena Đoković	OI	174001 (268/395)	Matematički institut SANU Beograd	Katica Stevanović Hedrih
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	Biserka Trumić
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 Grekulović, Bata Marjanović	TR	34003 (192/275)	Tehnički fakultet u Boru	Svetlana Nestorović
21.	``Razvoj ekoloških i energetski efikasnijih tehnologija za proizvodnju obojenih i plemenitih metala kombinacijom bioluženja, solventne ekstrakcije i elektroličke rafinacije``	Svetlana Ivanov	TR	34004 (257/275)	Institut za rudarstvo i metalurgiju Bor Tehnički fakultet u Boru	Vladimir Cvetkovski
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	Milenko Ljubojev
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 Tehnički fakultet u Boru	Vladimir Rakočević
24.	“Usavršavanje tehnologije eksplotacije i prerade 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,	TR	33038 (208/275)	Tehnički fakultet u Boru Tehnički fakultet u Boru	Nenad Vušović

		Miodrag Denić, Miodrag Banješević, Saša Stojadinović, Igor Srvkota, Jovica Sokolović, Dejan Petrović, Ana Ilić, Tanja Kalinović, Jelena Strojić				
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	Vojin Čokorilo
26.	„Održivost identiteta Srba i nacionalnih manjina u pograničnim opštinama Istočne i Jugoistočne Srbije „	Milovan Vuković, Danijela Voza	OI	179013 (131/395)	Mašinski fakultet u Nišu Tehnički fakultet u Boru	Dragoljub Đorđević
27.	Razvoj tehnologije za reciklažu plemenitih, retkih i pratećih metala iz čvrstog otpada Srbije do visokokvalitetnih proizvoda	Milan Gorgievski	TR	34024	IRM Bor	Vlastimir Trujić

Prilog 4.

SPISAK MEĐUNARODNIH PROJEKATA NA KOJIMA SU 2015. GODINE UČESTVOVALI ISTRAŽIVAČI SA TEHNIČKOG FAKULTETA U BORU

1. 54622398 DAAD Academic Reconstruction South Eastern Europe programme: **Resita Network - Innovation and Entrepreneurship**, 2008-2015.
2. Razvojni program SVIJET Sveučilišta u Zagrebu: **Razvoj novih legura s prisjetljivosti oblika** – multilateralni projekat 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. Rukovodioci projekta: Doc.dr Tamara Holjevac Grgurić (MF Sisak), Prof. dr Dragana Živković (TF Bor), Prof. dr Diana Ćubela (FMM Zenica). Saradnici na projektu sa TF Bor: Prof. dr Dragan Manasijević, Doc.dr Ljubiša Balanović, Doc.dr Aleksandra Mitovski
3. JST SATREPS project: **Research on the Integration System of Spatial Environment Analyses and Advanced Metal Recovery to Ensure Sustainable Resource Development**, 2014-2019. Institucije učesnice na projektu: (Japan) - Center for Geo-environmental Science (CGES), Akita University; International Center for Research and Education on Mineral and Energy Resources (ICREMER), Akita University; Faculty of International Resource Science; Graduate School of Engineering and Resources Science, Akita University; Japan Space Systems (J-spacesystems) i Mitsui Mineral Development Engineering Co., Ltd. (MINDECO), (Srbija) – IRM Bor, TF Bor, Ministarstvo rударства и енергетике и Ministarstvo poljoprivrede i zaštite životne sredine. Saradnici na projektu sa TF Bor: Prof. dr Milan Antonijević, Prof. dr Dragana Živković, Prof. dr Milan Trumić, Prof. dr Grozdanka Bogdanović, Prof. dr Snežana Milić, Doc. Dr Milan Radovanović, Doc. dr Milan Gorgijevski, Ass., Ana Radojević.
4. Program bilateralne saradnje Srbije i Slovenije, **Thermodynamic analysis and phase equilibria investigation in some low melting alloys in Zn-Al-Sn-Ga-In system**, 2014-2015. Rukovodioci projekta: Prof. dr Dragana Živković (TF Bor) i Prof. dr Jožef Medved (NTF Ljubljana). Saradnici na projektu sa TF Bor: Prof. dr Dragan Manasijević, Prof. dr Nada Štrbac, Doc.dr Ljubiša Balanović, Doc.dr Aleksandra Mitovski, Doc.dr Ivana Marković, Doc.dr Srba Mladenović
5. Istraživački projekat Hrvatske zaklade za znanost: **Dizajniranje mikrostrukture i funkcionalnih svojstava legura s prisjetljivosti oblika na bazi bakra** - multilateralni projekat Metalurškog fakulteta u Sisku Sveučilišta u Zagrebu (Hrvatska), Kemijsko-tehnološkog fakulteta Split Sveučilišta u Splitu (Hrvatska), Fakulteta za strojništvo (Institut za tehnologiju materialov) Univerze v Mariboru (Slovenija), Naravoslovno-tehniške fakultete Univerze u Ljubljani (Slovenija), Tehničkog fakulteta u Boru Univerziteta u Beogradu (Srbija), i Fakulteta za metalurgiju i materijale Univerziteta u Zenici, 2015-2019. Rukovodilac projekta: Prof. dr Mirko Gojić (MF Sisak), saradnici na projektu: Prof. dr Ladislav Vrsalović (KTF Split), Prof. dr Borut Kosec (NTF Ljubljana), Prof. dr Ivan Anžel (FS-ITM Maribor), Prof. dr Dragana Živković (TF Bor), Prof. dr Stjepan Kožuh, Prof. dr Robert Pezer, Doc. dr Tamara Holjevac Grgurić (MF Sisak)
6. Projekat mobilnosti studenata, nastavnog i nenastavnog osoblja u okviru programa "ERASMUS +" ključne akcije 1 mobilnost studenata, nastavnog i nenastavnog osoblja: **Key Action 1-Mobility for**

learners and Staff Mobility– Higher Education Student and Staff Mobility”. Realizatori projekta: Univerzitet u Beogradu, Tehnički fakultet u Boru, Bor, Srbija i Obuda University Budapest, Keleti Faculty of Business and Management, Budimpešta, Madjarska. Rukovodilac projekta: Prof. dr Ivan Mihajlović (TF Bor), 2015-2016.

7. ERASMUS+KA2 projekat: Development of Youth Entrepreneurship and Micro entrepreneurship Program - Razvoj programa omladinskog preduzetništva i mikropreduzetništva (SMErise), Rukovodilac projekta: Prof. dr Ivan Mihajlović (TF Bor), 2015.

Prilog 5.

SPISAK PROJEKATA IZ OKVIRA SARADNJE SA PRIVREDOM NA KOJIMA SU 2015. GODINE UČESTVOVALI ISTRAŽIVAČI SA TEHNIČKOG FAKULTETA U BORU

Projekti, studije, elaborati

1. Tehnički rudarski projekat rušenja mosta na državnom mostu IB reda br.33 u Rudniku bakra Majdanpek. Investitor: Rudarsko-topioničarski basen Bor - Grupa, DOO Rudnik bakra Majdanpek. Izvršilac:Tehnički fakultet u Boru, Bor 2015. Rukovodilac projekta: Prof. dr Radoje Pantović.
2. N.Vusović, Uprošćeni rudarski projekat otkopavanja rude u rudnom telu „Dolovi“ na površinskom kopu Severni revir Rudnika bakra Majdanpek. Naručilac: RTB Bor- Grupa, DOO Rudnik bakra Majdanpek, Izvršilac:Univerzitet u Beogradu, Tehnički fakultet u Boru, Bor, 2015.
3. Studija mogućnosti dobijanja bakra iz oksidnih ruda iz ležišta Kraku Bugaresku putem luženja. Naručilac : RTB Bor - Grupa, DOO Rudnici bakra Bor, Izvršilac:Univerzitet u Beogradu, Tehnički fakultet u Boru. Bor, 2015.god. Rukovodilac istraživanja: Prof. dr Grozdanka Bogdanović. Ostali članovi: dr Velizar Stanković, dr Milan Antonijević, dr Milan Trumić, Mr Dejan Antić, Msc Boban Spalović, Darko Miličević, Dobrinka Trujić.
4. R. Pantović, S. Stojadinović, Projekat monitoringa uticaja seizmičkih potresa i uticaja prašine i buke sa površinskog kopa „Kriveljski kamen“ na životnu sredinu, Tehnički fakultet u Boru, Bor 2015,
5. R. Pantović, S. Stojadinović, Projekat monitoringa uticaja seizmičkih potresa na građevinske i stambene objekte u zoni uticaja miniranja na površinskim kopovima „Cerovo 1“ i „Cerovo 2“, Tehnički fakultet u Boru, Bor 2015.
6. R. Pantović, S. Stojadinović, Elaborat o „nultom“ stanju oštećenja objekata u zoni seizmičkog uticaja miniranja na površinskim kopovima „Cerovo 1“ i „Cerovo 2“, Tehnički fakultet u Boru, Bor 2015.

Tehničke kontrole projekata

1. V. Milić, M.Žikić, Tehnička kontrola „Tehničkog projekta primarnog drobljenja rude čeljusnom drobilicom tipa HJ 110 u Jami Bor ispod XVII horizonta“, Bor, 2015.god.
2. V.Milić, Tehnička kontrola u toku izrade Dopunskog rudarskog projekta zasipavanja otkopa u Jami Bor sa pasta zasipom spravljenim od flotacijske jalovine“. Investitor: RTB Bor- Grupa, DOO Rudnici bakra Bor, Izvršilac:Univerzitet u Beogradu, Tehnički fakultet u Boru. Rukovodilac : Prof. dr Vitomir Milić . Bor, 2015.god.
3. V.Milić, Tehnička kontrola u toku izrade Dopunskog rudarskog projekta eksploracije rude bakra iz ležišta “Borska reka“ iznad XIX horizonta (K-235) sa očuvanjem površine terena“. Investitor (Naručilac): RTB Bor- Grupa, DOO Rudnici bakra Bor, Izvršilac:Univerzitet u Beogradu, Tehnički fakultet u Boru. Rukovodilac : Prof. dr Vitomir Milić . Bor, 2015.
4. V.Milić, Tehnička kontrola Godišnjih operativnih planova za I-XII 2015.godine pogona i sektora RBB-a, i to:

- Dinamički plan otkopavanja Površinskog kopa Veliki Krivelj za I-XII 2015.godine
- Dinamički plan otkopavanja Površinskog kopa Kraku Bugaresku za I-XII 2015.godine
- Dinamički plan otkopavanja Tehnogenog ležišta Depo šljake 1 za I-XII 2015.godine
- Dinamički plan otkopavanja Površinskog kopa Zagradje 5 za I-XII 2015.godine
- Plan rudarskih radova pogona Jama za 2015.godinu
- Plan sprovodjenja i kontrole sprovodjenja mera bezbednosti i zdravlja na radu (BZNR) i zaštite od požara (ZOP) za 2015.godinu- sektor BZNR i ZOP
- Stanje rudnih rezervi za ležišta u RBB-u na dan 31.12.2015.godine- služba geologije
- Plan aktivnosti iz oblasti ekologije u 2015.godini- sektor za razvoj i
- Izveštaj o poslovanju RBB-a za period I-XII 2014.godine- sektor za finasije

Naručilac: RTB Bor- Grupa, DOO Rudnici bakra Bor, Izvršilac: Univerzitet u Beogradu, Tehnički fakultet u Boru, Bor, 2015.

5. V.Milić, Tehnička kontrola Godišnjeg operativnog plana za 2015.godine Rudnika bakra Majdanpek. Naručilac: RTB Bor- Grupa, Rudnik bakra Majdanpek, Izvršilac: Univerzitet u Beogradu, Tehnički fakultet u Boru, Bor, 2015.

6. V.Milić, Tehnička kontrola Godišnjeg operativnog plana proizvodnje za 2015.godine na kopovima Čokoće i Trešnja u Holcim D.O.O Novi Popovac. Naručilac: HOLCIM d.o.o. Novi Popovac, Izvršilac: Univerzitet u Beogradu, Tehnički fakultet u Boru, Bor, 2015.

Prilog 6.

SPISAK TEHNIČKO-RAZVOJNIH REŠENJA ISTRAŽIVAČA SA TEHNIČKOG FAKULTETA U BORU U 2014.GODINI

Pregled: M82 – 3
M83 – 3

M82 – 3

1.Tehničko i razvojno rešenje (M82 – novi materijal):

“Višekomponentni ekološki lemovi Sn-Zn-Ga i Sn-Zn-Ga-Al lemovi”

Autori: Lj. Balanović, D. Živković, D. Manasijević, L. Gomidželović, A. Kostov, A. Mitovski, D. Minić, R. Todorović

Oblik valorizacije, odnosno tržišne komercijalizacije

MARTENZIT Bor

2.Tehničko i razvojno rešenje (M82 – novi materijal):

“Bezolovni lemovi na bazi aluminijuma i cinka za primenu u elektrotehnici i elektronici”

Autori: D. Živković, Lj. Balanović, D. Manasijević, L. Gomidželović, V. Ćosović, N. Talijan, N. Šrbac

Oblik valorizacije, odnosno tržišne komercijalizacije

MARTENZIT Bor

3.Tehničko i razvojno rešenje (M82 – novi materijal):

“Osvajanje tehnologije proizvodnje Pd-Au legure za katalizatore-hvatače”

Autori: B. Trumić, D. Stanković, A. Ivanović, S. Marjanović, S. Dimitrijević

Oblik valorizacije, odnosno tržišne komercijalizacije

IRM Bor

M83 – 3

1.Tehničko i razvojno rešenje (M83 – novi tehnološki postupak):

“Elektrohemijsko dobijanje kalijum zlatnog cijanida”

Autori: S. Dragulović, S. Dimitrijević, B. Trumić, R. Marković, D. Božić, M. Gorgievski, S. Alagić

Oblik valorizacije, odnosno tržišne komercijalizacije

IRM Bor

2.Tehničko i razvojno rešenje (M82 – novi tehnološki postupak):

“Tehničko rešenje za povećanje kapaciteta drobljenja rude i otklanjanja nedostataka u sistemu transporta rude sa površinskog kopa Južni Revir, transportni sistem TS-3”

Autori: B. Drobnjaković, D. Milanović, Z. Marković, D. Stanujkić, D. Urošević, S. Magdalinović, Z. Štirbanović, V. Marjanović

Oblik valorizacije, odnosno tržišne komercijalizacije

RTB Rudnici bakra Bor, Bor i IRM Bor

3.Tehničko i razvojno rešenje (M82 – novi tehnološki postupak):

“Tehničko rešenje za povećanje iskorišćenja bakra u sistemu prerađe topioničke šljake u delu mlevenja i klasiranja”

Autori: D. Milanović, B. Drobnjaković, Z. Marković, D. Stanujkić, D. Urošević, S. Magdalinović, I. Jovanović, V. Marjanović

Oblik valorizacije, odnosno tržišne komercijalizacije

RTB Rudnici bakra Bor, Bor i IRM Bor

Prilog 7.

OSTALE AKTIVNOSTI U OBLASTI NIR-A NA TEHNIČKOM FAKULTETU U BORU U 2015. GODINI

1. Nova oprema za NIR na TF Bor:

U periodu od 2011. do 2015. godine, TF Bor je na osnovu učešća na međunarodnim projektima, kao i projektima MPNTR RS, u značajnoj meri – u poredjenju sa dugogodišnjim prethodnim periodom – obnovio svoje naučno-istraživačke kapacitete novom opremom. Sredinom 2014.godine sledeća, kapitalna oprema instalirana je na Tehnički fakultet u Boru, i to: 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, elektrohemijačka stanica, skenirajuće-sondni mikroskop – SPM; i aparat Flash Termal Constant Analyzer DXF-500 za beskontaktno nedestruktibno ispitivanje termijske difuzivnosti i provodljivosti čvrstih i tečnih supstanci u širem temperaturnom opsegu.

U toku 2015.godine iz sredstava projekata MPNTR je pored materijala za rad i sitnije opreme, nabavljena i sledeća oprema: EPI-Fluorescent Microscope, Lab.reaktor LR1000 Basic S99 Komplet, Multiparametar Bench Photometer for Lab. Nova oprema će podići kvalitet nastave, a koristiće se i za izradu kvalitetnijih završnih radova, diplomskih radova i doktorskih disertacija. Takođe, pružiće brojne mogućnosti studentima i nastavnom osoblju u cilju poboljšanja osnovnih i primenjenih istraživanja, što će dovesti do objavljivanja kvalitetnijih radova i efikasnijoj saradnji sa obrazovnim i naučnim institucijama. Takodje, ovi kapaciteti će biti od značaja i u pripremi, prijavi i realizaciji predstojećih projekata – kako međunarodnih, tako i u novom projektnom ciklusu MPNTR RS.

2. Izdavanje časopisa:

TF Bor izdaje četiri naučna časopisa: *Journal of Mining and Metallurgy, Section A: Mining* (JMM-A); *Journal of Mining and Metallurgy, Section B: Metallurgy* (JMM-B) (*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 časopisi, izuzev ROR, finansirani su od strane MPNTR RS.

Slede podaci o aktuelnom pozicioniranju časopisa koje publikuje TF Bor tokom prethodne godine (prema

<http://www.mpn.gov.rs/predlog-kategorizacije-casopisa-za-2014-godinu/>):

- **JMM - Section A: Mining** - svrstan je u kategoriju **M24** (prema kategorizaciji domaćih naučnih časopisa za energetiku, rudarstvo i energetsku efikasnost)
- **JMM - Section B: Metallurgy** - svrstan je u kategoriju **M22** (2014.god) IF(2014)=0,832 i mesto 34/74 u oblasti Metallurgical Engineering, kao i petogodišnji IF(2009-2014)=0,863 i mesto 31/74 u pomenutoj oblasti

- **Serbian Journal of Management**- svrstan je u kategoriju **M24** (prema kategorizaciji domaćih naučnih časopisa za uredjenje, zaštitu i korišćenje voda, zemljišta i vazduha) i u kategoriju **M51** (prema kategorizaciji domaćih naučnih časopisa u oblasti ekonomija i organizacione nauke)
- **Reciklaža i održivi razvoj**- svrstan je u kategoriju **M52** (prema kategorizaciji domaćih naučnih časopisa u oblasti materijala i hemijskih tehnologija i prema kategorizaciji domaćih naučnih časopisa za uredjenje, zaštitu i korišćenje voda, zemljišta i vazduha) i **M53** (prema kategorizaciji domaćih naučnih časopisa u oblasti energetike, rudarstva i energetske efikasnosti)

3. Organizacija naučnih skupova:

- a. **23rd International Conference Ecological Truth (Eco-Ist 2015), Kopaonik, 17-20. jun 2015.** – organizator: TF Bor; saorganizatori: Univerzitet u Zagrebu Metalurški fakultet Sisak; Univerzitet Crne Gore Metalurško-tehnološki fakultet Podgorica; Univerzitet "Dimitrie Cantemir" Fakultet za menadžment i trgovinu Temišvar; Zavod za zaštitu prirode Srbije; Institut za rudarstvo i metalurgiju Bor i Društvo mladih istraživača Bor; skup je finansiran od strane MPNTR RS (predsednik Org.odbora Prof.dr R.Pantović).
- b. **10th International May Conference on Strategic Management (IMCSM2015), Bor, 29-30. maj 2015.** – organizator je TF Bor, skup je finansiran od strane MPNTR RS (predsednik Org.odbora Prof. dr I.Mihajlović).
- c. **X International Symposium on Recycling Technologies and Sustainable Development (ISRTSD2015), Bor, 4-7 novembar 2015.** – organizator je TF Bor, (predsednik org.odbora Prof. dr Z.Marković)
- d. **7th Symposium on thermodynamics and phase diagram (TDPD2015), Bor, 7-9. Jun 2015.** – organizator je **TF Bor i Serbian Committee for Thermodynamics and Phase Diagrams and Associated Committee for Phase Diagrams and Thermodynamics (Bulgaria, Bosnia and Herzegovina, Croatia, Czech Republic, Hungary, Montenegro, Poland, Romania, Serbia, Slovakia, Slovenia)**, (predsednik org.odbora Prof. dr D.Manasijević).

Kao su-organizator, TF Bor je učestvovao u organizaciji sledećih skupova:

- e. **47th International October Conference on Mining and Metallurgy (IOC2015), Borsko jezero, 4-6 oktobar 2015.** – organizatori: IRM Bor i TF Bor; skup je finansiran od strane MPNTR RS (predsednik Org.odbora dr A.Kostov).
- f. **5th International Symposium on Environmental and Materials Flow Management (EMFM2015), Zenica, 5-7. novembra 2015.** – organizator 2015. godine bio je Mašinski fakultet Univerziteta u Zenici (BiH), suorganizatori: TF Bor i Birkefeld Campus University of Applied Sciences Trier (Germany) (predsednik Org.odbora Prof. dr Šefket Goletić)

U okviru skupova – IMCSM i ISRTSD nastavljeno je sa organizacijom odgovarajućih studentskih simpozijuma : **Studenski simpozijum o strategijskom menadžmentu** (predsednik Org.odbora Doc dr Marija Savić) i **4.Studenski simpozijum “Reciklažne tehnologije i održivi razvoj”** (predsednik

Org.odbora Doc. dr Z.Širbanović). Sobzirom da je 2015. godine IOC organizovao IRM Bor, *2nd International student conference on Geology, Mining, Metallurgy, Chemical engineering, Material Science and related fields, ISC2015* (predsednik Org.odbora Doc. dr Ljubiša Balanović) organizovan je kao samostalni studentski skup u periodu od 13-14. jula 2015. u suorganizaciji sa Imperial College London - Society of economic geology chapter, (UK). U okviru istog skupa održan je i *Research symposium and short-course on economic geology*, sa pratećom stručnom ekskurzijom za studente-učesnike.

4. Potpisani bilateralni sporazumi sa fakultetima u inostranstvu i ugovori sa institucijama iz inostranstva, šk. 2015/16. godini:

- Faculty of Chemistry, University Paisii Hilendarski, Plovdiv, Bulgaria
- Tehnološko-metalurški fakultet, Univerzitet "S.Čirilo i Metodije" u Skoplju, Makedonija
- Faculty of Metallurgy, Technical University of Košice, Slovakia
- Fakultet za metalurgiju i materijale, Univerzitet u Zenici, BiH
- Faculty of Mining, University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria
- University of chemical technology and metallurgy, Sofia, Bulgaria
- Naravoslovno-tehnička fakulteta Ljubljana, Univerze v Ljubljani, Slovenija
- Metalurški fakultet u Sisku, Sveučilište u Zagrebu, Hrvatska
- Fakultet kemijskog inženjerstva i tehnologije Sveučilišta u Zagrebu, Hrvatska
- Chemical Faculty, Buryat State University Ulan-Ude, Russia
- Faculty of Natural and Technical Sciences, University of Štip, Macedonia
- Faculty of Technical Sciences, University Eftimie Murgu, Resita, Romania
- Central Southern University, State Key Laboratory for Powder Metallurgy, Changsha, China
- Faculty of Materials Science and Engineering, The „Gheorghe Asachi“, Technical University Iasi, Romania
- Tehnološki fakultet, Univerzitet u Banjoj Luci, Republika Srpska - BiH
- Tehnološki fakultet u Zvorniku, Univerzitet u Istočnom Sarajevu, Republika Srpska - BiH
- Metalurško-tehnički fakultet Podgorica, Univerzitet Crne Gore, Crna Gora
- Rudarski fakultet u Prijedoru, Univerzitet u Banjoj Luci, Republika Srpska - BiH
- Faculty of Economy, Tirana University, Albania
- Faculty of Business and Management, University of Ruse „Angel Kunchev“, Bulgaria
- Ekonomski fakultet, Univerzitet u Zenici, BiH
- Faculty of Economy, University Eftimie Murgu, Resita, Romania
- Faculty of Engineering and Management, University Eftimie Murgu, Resita, Romania
- Faculty of Science and Forestry of the University of East Finland, Joensuu and Kuopio, Finland
- University American College Skopje, Macedonia
- Akita University, Akita, Japan
- International Visegrad Fund, Bratislava, Slovakia
- Ranepa Moskva, Rusija

5. Potpisani ugovori o bilateralnoj saradnji sa fakultetima i institucijama iz Srbije, šk. 2015/16. godini:

- Institut za rudarstvo i metalurgiju u Boru
- Rudarsko-geološki fakultet u Beogradu, Univerzitet u Beogradu
- Tehnološko-metalurški fakultet u Beogradu, Univerzitet u Beogradu
- Tehnološki fakultet u Novom Sadu, Univerzitet u Novom Sadu

- Fakultet tehničkih nauka u Novom Sadu, Univerzitet u Novom Sadu
- Fakultet tehničkih nauka u Kosovskoj Mitrovici, Univerzitet u Prištini
- Tehnološki fakultet u Leskovcu, Univerzitet u Nišu
- Institut za bezbednost, kvalitet i zaštitu životne sredine i zdravlja” 27.januar” Niš

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 termodinamike 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 Košica), 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). Tokom 2015. godine, Prof. dr Dragana Živković je, kao gost-predavač, ispred Komiteta za TD i fazne dijagrame Srbije i TF Bor, učestvovala na APDTC Discussion Meeting-u u Miškolcu, Madjarska,. Takodje, od 7-9. juna 2015., organizovan je 7.simpozijum o termodinamici i faznim dijagramima na TF Bor, na kome su bile prisutne i kolege iz Associated Committee for Phase Diagrams and Thermodynamics (Bulgaria, Bosnia and Herzegovina, Croatia, Czech Republic, Hungary, Montenegro, Poland, Romania, Serbia, Slovakia, Slovenia) - iz Madjarske, Slovenije, Rumunije i Hrvatske, što je bila dobra prilika za dogovore o budućoj saradnji. Posebno je zanimljivo da je plenarno predavanje održao Prof. dr George Kaptay (Univerzite u Miškolcu, Madjarska), dobitnik medjunarodne nagrade za najbolji rad u oblasti termodinamike i faznih dijagrama u 2015. godini. Krajem 2015. godine, posredovanjem prof. dr Dragane Živković, obezbedjena je i šestomesecna post-doc mobilnost za našeg bivšeg studenta doktorskih studija na Metalurškom inženjerstvu, Dr. Milenu Premović na Masarikovom univerzitetu u Brnu, Češka republika.

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; Politechnical University Timisoara, Romania, Open American College Skopje, Macedonia, University of Tirana, Albania. U okviru ove mreže tokom 2015. godine organizovan je značajan broj aktivnosti – letnja akademija, razmena studenata i profesora. Izmedju ostalog, 27. oktobra 2015. u Boru organizovana internacionalna škola: „Innovation Management and Creativity Techniques – from Megatrends to Business Opportunities Mtrend to BO 2015”. Na ovoj školi su, pored studenata Odseka za menadžment, Tehničkog fakulteta u Boru, učestvovali i studenti iz Bosne i Hercegovine (Republika Srpska), Bugarske, Rumunije, Makedonije i Albanije. Predavači su bili Profesor Michael Graef sa univerziteta Worms u Nemačkoj, Makedonka Dimitrova sa Univerziteta American College iz Skoplja –

Makedonija, kao i Prof. Ivan Mihajlović, Đorđe Nikolić i Predrag Đorđević, sa Odseka za menadžment, Tehničkog fakulteta u Boru.

3. MET-NET mreža:

Od 2008. godine, TF Bor je i član MET-NET mreže metalurških fakulteta, čije su članice svi metalurški fakulteti iz regiona – Slovenije, Hrvatske, BiH, Crne Gore, Makedonije, Slovačke, a očekuje se i širenje mreže članovima iz Poljske, Grčke, Bugarske, Rumunije, Turske, Albanije. Tokom 2015. godine, održano je nekoliko radnih sastanaka u Boru i Ljubljani, više bilateralnih poseta, ostvarena je saradnja kroz zajednički organizovane NIR aktivnosti i projekte (bilaterlani projekat sa Slovenijom, 2014-2015, istraživački projekat Hrvatske zaklade za znanost: **Dizajniranje mikrostrukture i funkcionalnih svojstava legura s prisjetljivosti oblika na bazi bakra** - multilateralni projekat Metalurškog fakulteta u Sisku Sveučilišta u Zagrebu (Hrvatska), Kemijsko-tehnološkog fakulteta Split Sveučilišta u Splitu (Hrvatska), Fakulteta za strojništvo (Institut za tehnologiju materialov) Univerze v Mariboru (Slovenija), Naravoslovno-tehničke fakultete Univerze u Ljubljani (Slovenija), Tehničkog fakulteta u Boru Univerziteta u Beogradu (Srbija), i Fakulteta za metalurgiju i materijale Univerziteta u Zenici, 2015-2019.), organizovanje zajedničkih skupova, publikovanja radova, učešća u komisijama za dr radove, organizacije stručnih praksi i ekskurzija, i sl. Treba istaći boravak prof. dr Sulejmana Muhamedagića sa FAMM Zenica (BiH) u maju 2015. godine, kada je održao nekoliko predavanja za studente metalurgije iz oblasti Metalurgije gvožđa i čelika. Pokrenute su krajem 2015. godine i aktivnosti na prijavi Erasmus+ KA1 projekta vezano za mobilnost nastavnika i studenta izmedju Metalurškog fakultet Sisak, Fakulteta za metalurgiju i materijale Zenica i TF Bor. U periodu od 7-15. decembra 2015. na fakultetu su boravile, u okviru zajedničkog istraživačkog projekta, Doc. dr Tamara Holjevac Grgurić I Doc. dr Natalija Dolić sa MF Sisak.

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 2015. godine, TF Bor je nastavio sa svojim tradicionalnim aktivnostima u okviru promocije i popularizacije nauke.

- **Manifestacija Noć istraživača BONIS 2015** – Borska noć istraživača, septembra 2015. Organizatori: TF u Boru, DMI Bor, Studenski centar bor i Osnovna škola Dušan Radović.

- **Druga Borska noć istraživača “BONIS 2015”** održana 25. 09. 2015. u prostorijama Studentskog centra Bor. Organizatori i realizatori: Tehnički fakultet u Boru, Akademski kulturni klub TF Bor, Studentski centar Bor, OŠ “Dušan Radović” Bor, OŠ “Branko Radičević” Bor, OŠ “Stanoje Miljković” Brestovac, Tehnička škola Bor, Ekonomsko-trgovinska škola Bor, Gimnazija “Bora Stanković” Bor, Društvo mladih istraživača Bor (Učesnici sa TF Bor: A. Mitovski, V. Grekulović, I. Marković, Lj. Balanović, M. Gorgievski, U. Stamenković, M. Radovanović, Ž. Tasić, D. Medić, B. Spalović)
- **Četvrti festival nauke Karavan nauke Timočki Naučni Tornado “TNT 15”,** održan 31. 10. 2015. u OŠ “Dušan Radović” u Boru. Organizatori: Tehnički fakultet u Boru, OŠ “Dušan Radović” Bor, Društvo mladih istraživača Bor. Projekat je finansijski podržan od strane MPNTR Republike Srbije. Rukovodilac projekta: prof. dr Dragana Živković (Učesnici sa TF Bor: A. Mitovski, I. Marković, V. Grekulović, Ž. Tasić, D. Medić, B. Spalović, Lj. Balanović, M. Gorgievski, U. Stamenković, M. Cocić, S. Stojadinović, J. Sokolović, S. Arsić).
- **Drugi festival nauke TNT Zaječar “TNT 15”,** 28. 11. 2015. održan u OŠ “Desanka Maksimović” u Zaječaru. Organizatori: Tehnički fakultet u Boru, OŠ Desanka Maksimović, Tehnički fakultet u Boru, OŠ “Dušan Radović” Bor, Društvo mladih istraživača Bor. Rukovodilac projekta: prof. dr Dragana Živković (Učesnici sa TF Bor: A. Mitovski, V. Grekulović, Lj. Balanović, M. Gorgievski, M. Radovanović, Ž. Tasić, J. Sokolović).
- **Prvi festival nauke TNT Negotin “TNT 15”,** 26. 12. 2015. održan u OŠ “Vuk Karadžić” u Negotinu. Organizatori: Tehnički fakultet u Boru, OŠ “Vuk Karadžić” Negotin, Tehnički fakultet u Boru, OŠ “Dušan Radović” Bor, Društvo mladih istraživača Bor (Učesnici sa TF Bor: Lj. Balanović, I. Marković, D. Medić).

7. Gostujući profesori sa TF Bor na inostranim univerzitetima:

- Central South University, State Key laboratory for Powder Metallurgy, Changsha, China: Prof. dr Dragana Živković
- Naravoslovno-tehnička fakulteta Univerze v Ljubljani, Slovenija: Prof. dr Dragana Živković
- University American College Skopje, Makedonija: Prof. dr Živan Živković, Prof. dr Ivan Mihajlović

8. Učešće TF Bor na sajmovima:

- 59. Međunarodni sajam tehnike i tehničkih dostignuća u Beogradu, 11. do 15. maja 2015.god.
- 12th EDUfair u Beogradu, 2015.
- 60. Medjunarodni sajam knjiga u Beogradu, 2015.
- 8.Sajam obrazovanja Zvonce (28. oktobra do 1.novembra 2015.) koji je održan u okviru 60. Međunarodnog sajma knjiga u Beogradu.

9. Studijski boravci, posete drugim univerzitetima u inostranstvu, naučni skupovi, sastanci i radionice u inostranstvu:

Prof. dr Dragana Živković, Prof. dr Nada Šrbac, Doc dr.Ljubiša Balanović, Doc dr.Aleksandra Mitovski-boravak na Naravoslovno-tehniškoj fakulteti Univerze v Ljubljani, Slovenija

Prof. dr Živan Živković, Prof. dr Ivan Mihajlović, Ass. Sanela Arsić – boravak na University American College Skopje, Makedonija

Prof. dr Dragana Živković – boravak na FMSE Univerziteta u Miškolcu, Madjarska

Prof. dr Ivan Mihajlović- sastanak/radionica Rešica mreža - Pale (BiH)

Prof. dr Ivan Mihajlović- sastanak/radionica Mavrovo (Makedonija) - Rešica mreža

Prof. dr Ivan Mihajlović- sastanak/radionica Podgorica (Crna Gora) - Rešica mreža

Prof. dr Milan Antonijević, naučni skup Banjaluka (BiH)

Dr Nada Šrbac, naučni skup Banjaluka (BIH)

Doc.dr Đorđe Nikolić, sastanak/radionica Ruse (Bugarska) - Rešica mreža

Ass. Ivica Nikolić, Ass. Sanela Arsić, sastanak/radionica Tirana (Albanija) - Rešica mreža

Dr Ivan Mihajlović, naučni skup, Budimpešta (Madjarska) -Višegrad projekat

Prof. dr Živan Živković i Prof. dr Ivan Mihajlović – naučni skup Moskva (Rusija)

10. Studijski boravci ili posete sa drugih univerziteta iz inostranstva

- prof. dr S.E. Nurgalievich i asist. dr S. Rustam, Kazakh-British Technical university iz Kazahstana (oktobar 2015.)
- prof. dr D. Ischiama i prof dr N.Masuda, Department of Earth Resource Engineering and Environmental Science, Faculty of International Resource Sciences, Akita University, Akita, Japan (oktobar 2015)
- Prof. Dr Yong Du i Prof. Dr Lijun Wang, Central South University, State Key laboratory for Powder Metallurgy, Changsha, China; Prof. dr Andrej Rosina, Prof. dr Jožef Medved, Doc.dr Maja Vončina – NTF Ljubljana, Slovenija; Prof. dr George Kaptay, Miskolc University, Hungary; Dr Andrei Rotaru, University of Craiova, Romania (jun 2015)
- Prof. dr Sulejman Muhamedagić, FAMM Zenica, (maj 2015)
- Prof. dr Jakob Lamut, NTF Ljubljana Slovenija (jun 2015.)
- Doc. dr Tamara Holjevac Grgurić i Doc.dr Natalija Dolić, MF Sisak (decembar 2015.)

11. Prezentacije i predavanja:

- Prezentacija kompanija BRUKER i DONAU LAB (mart 2015.)

- Zorana Stamenic, Le Bélier Kikinda – prezentacija projekta “Project foundry school – nova mogućnost za obuku i zaposlenje za studente završnih godina metalurgije” (maj 2015.)
- Dr Dragana Randjelovic, RGF Beograd, održala je predavanje pod nazivom “Geobotanička i biogeohemijska karakterizacija rudničke otkrivke u Boru i mogućnost primene rezultata u remedijaciji” (jun 2015.)