

Инжинер

Универзитет у Београду  
Технички факултет у Бору  
Број: VI/4-13-2  
Бор, 20. 03. 2018. године

На основу чл. 47. Статута Техничког факултета у Бору, Наставно-научно веће Факултета, на седници одржаној 15. 03. 2018. године, донело је

## ОДЛУКУ

I Усваја се Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2017. години.

II Извештај Комисије за обезбеђење и унапређење квалитета о оцени НИР-а у 2017. години, саставни је део ове Одлуке.

### Доставити:

- председнику Комисије
- продекану за НИР
- архиви

ПРЕДСЕДНИК  
НАСТАВНО-НАУЧНОГ ВЕЋА

ДЕКАН

Проф. др Нада Штрбац



Нада Штрбац

Универзитет у Београду,  
Технички факултет у Бору



**Годишњи извештај о резултатима  
оствареним у научноистраживачком  
раду и међународној сарадњи за  
2017. годину**

Бор,  
12. фебруар 2018. године

## ОСНОВНИ ПОДАЦИ

Извештај о раду у области научноистраживачког рада и међународне сарадње (НИР и МС) на Техничком факултету у Бору за 2017. годину састоји се од неколико сегмената:

- Списак референци наставника и сарадника са ТФ Бор (М10 - М90), Прилог 1
- Списак цитираних радова наставника и сарадника са ТФ Бор, Прилог 2
- Списак домаћих пројеката на којима су укључени наставници и сарадници са ТФ Бор, Прилог 3
- Списак међународних пројеката на којима су укључени наставници и сарадници са ТФ Бор, Прилог 4
- Списак пројеката остварених у сарадњи са привредом на којима су укључени наставници и сарадници са ТФ Бор, Прилог 5
- Списак осталих активности факултета од значаја за НИР и МС (издавачка делатност, научни склопови, билатерална сарадња, учешће на сајмовима, научна предавања и друге активности), Прилог 6

У складу са *Правилником о поступку, начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача* извршено је оцењивање истраживача запослених на Техничком факултету у Бору. Увидом у резултате НИР-а на ТФ Бор, оствареним током 2017. године, који су представљени у прилозима у продужетку овог текста, могу се извући следећи закључци:

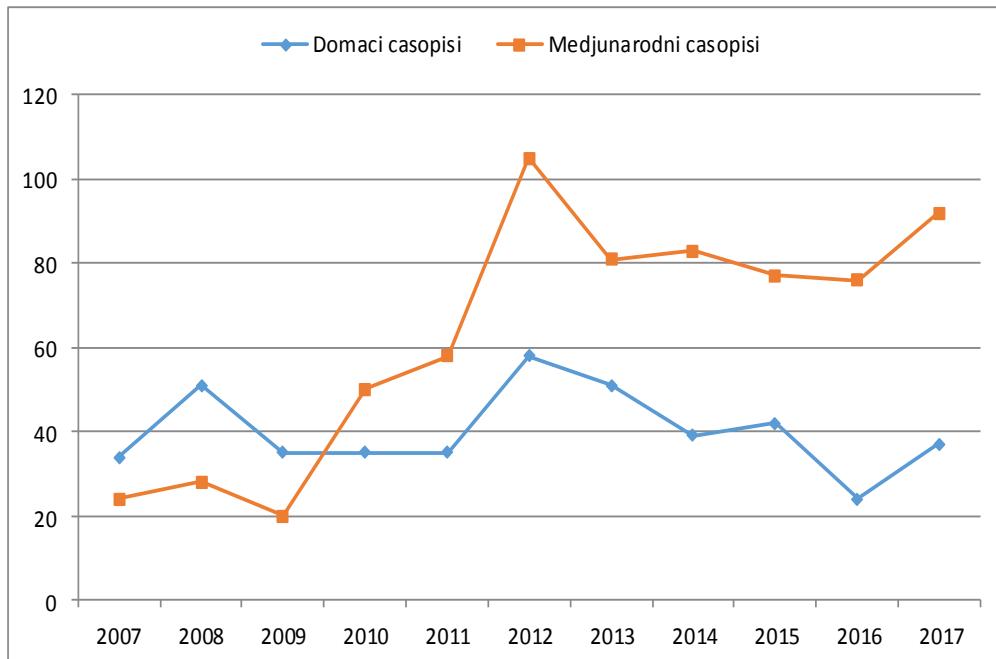
1. Публиковане монографске студије и радови у међународним часописима, категорије М10+М20:  $7+92=99$  рада
2. Публиковани радови у националним часописима, категорије М50: 37 радова
3. Цитираност у 2017. години (SCOPUS резултати): 221 рад цитиран 540 пута
4. Публиковане монографије, зборници радова, уџбеници: 2 монографије категорије М40, 7 зборника са међународних научних склопова категорије М30 и 5 уџбеника
5. Саопштени радови на међународним (М30) и националним (М60) склоповима:  $175+24=199$  рада
6. Ангажовање на пројектима:
  - a. Пројекти код Министарства Просвете Науке и Технолошког Развоја Републике Србије: 26 (4 ИИИ, 9 ОИ, 13 ТР, од тога 5 пројекта на којима су руководиоци истраживачи са ТФ Бор)
  - b. Међународни пројекти: 8
  - c. Пројекти финансирали од стране привреде и остали пројекти: 11

Збирни приказ резултата НИР-а за 2017. годину дат је у Табели 1.

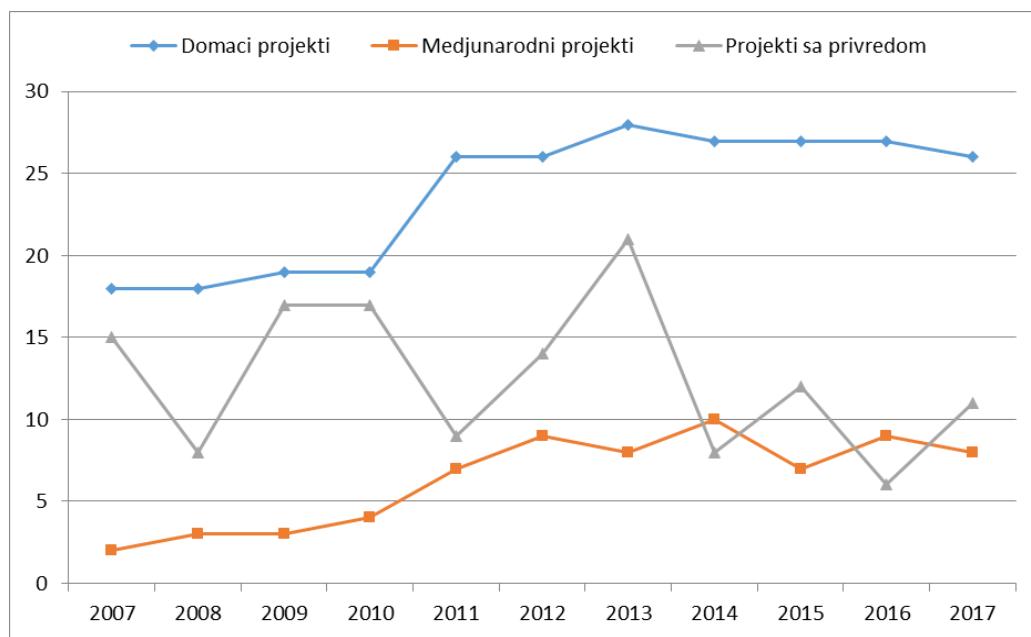
Табела 1. Збирни приказ резултата НИР-а Техничког факултета у Бору за 2017. год.

Тип резултата - категорија, према МПНТР РС	Број остварених резултата	УКУПНО
M13	1	M10 - 7
M14	6	
M21a + M21	8+6=14	M20 - 93
M22	27	
M23	34	
M24	21	
M28a	1	
M31	12	M30 - 182
M32	1	
M33	126	
M34	36	
M36	7	
M42	2	M40 - 4
M49	2	
M51	17	M50 - 37
M52	11	
M53	9	
M55	1	
M56	3	
M61	1	M60 - 25
M63	10	
M64	13	
M66	1	
M71	3	M70 - 3
Уџбеници	5	5
Цитираност	221 рад цитиран 540 пута	
Пројекти финансирали од стране МПНТР РС	26	
Међународни пројекти	8	
Пројекти финансирали од стране привреде и остали пројекти	11	
Организовани научни скупови	5 међународна научна скупка + 1 међународна студентска конференција и 2 национална студентска симпозијума	
Публиковани часописи	4 научна часописа + 1 студентски часопис	

У наставку је, на Сликама 1.-3. и у Табели 2., дат компаративни приказ резултата остварених на ТФ Бор за претходни период (од 2007. године до данас).



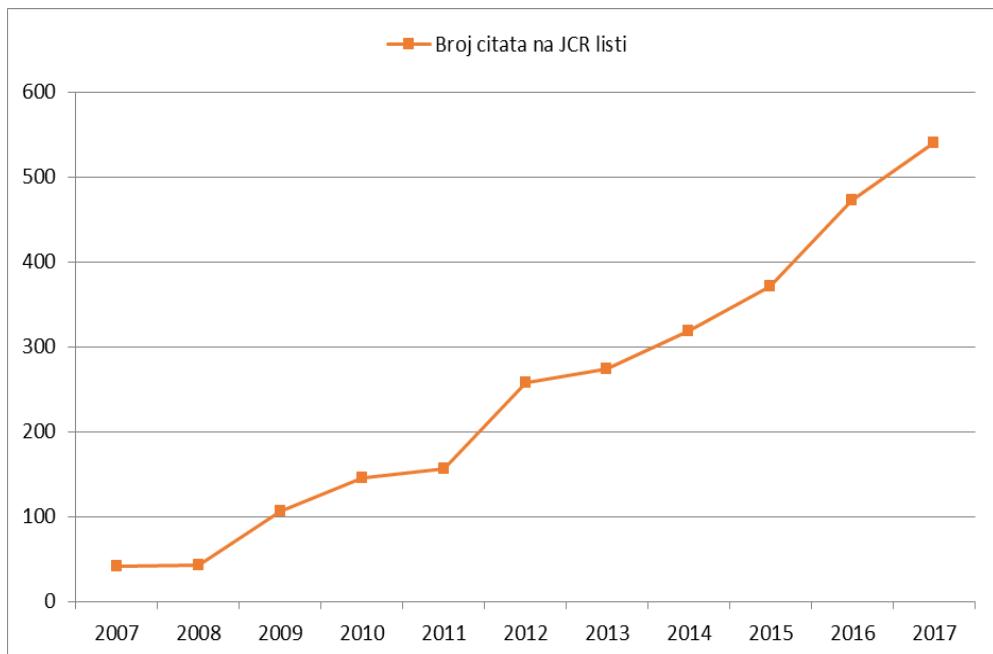
Слика 1. Компаративни приказ броја радова објављених у међународним и домаћим часописима (М20 и М50) на ТФ Бор у периоду 2007. – 2017. год.



Слика 2. Компаративни приказ броја домаћих, међународних и пројеката са привредом реализованих на ТФ Бор у периоду 2007. – 2017. год.

Година	2010.	2011.	2012.	2013.	2014.	2015.	2016.	2017.
Саопштења на међународним скуповима (M30)	107	179	161	174	165	191	158	175
Саопштења на домаћим скуповима (M60)	68	79	70	44	32	33	6	24
Одбрањене докторске дисертације (M70) (само запослени на ТФ Бор)	9	1	8	8 (3+5)	1	9 (1+8)	4	3
Техничко-развојна решења (M80)	6	2	8	9	4	6	0	0

Табела 2. Компаративни приказ броја резултата категорија M30, M60, M70 и M80 у периоду 2010. – 2017. год.



Слика 3. Компаративни приказ броја цитата на JCR листи за ТФ Бор у периоду 2007. – 2017. год.

Представљени резултати активности из области НИР и МС могу се сматрати задовољавајућим, имајући у виду опште актуелно стање и постојеће проблеме у науци у Србији уопште. Поређење са претходним периодом указује на квантитативни пораст броја објављених радова у међународним часописима – M20: 2012.год.-97, 2013.год.-81, 2014.год.-83, 2015.год.-77, 2016.год.-76 и 2017.год.-96, као и у броју публикованих радова у домаћим часописима – M50: 2012.год.-58, 2013.год.-51, 2014.год.-39, 2015.год.-42, 2016.год.-24 и 2017.год.-33, Слика 1.

Када су у питању пројекти финансирали од стране Министарства просвете, науке и технолошког развоја Републике Србије, у 2017. години је настављено финасирање текућих пројекта, при чему је број пројеката на којима су учествовали истраживачи са ТФ Бор на истом нивоу као и претходних година. Имајући у виду стално присуство материјално-финансијских проблема, у 2017. години набављена је само ситнија опрема и материјал за рад. Истраживачи са ТФ Бор учествовали су на 8 међународних пројеката, што је приближно исто као и претходних година. У области сарадње са привредом у 2017. години су урађене 8 студије и пројекта, 2 техничке контроле пројекта и једно вештачење, Слика 2.

Квантитативни пораст се уочава и у броју саопштења на међународним скуповима – M60: 2012.год.-161, 2013.год.-174, 2014.год.-165, 2015.год.-191, 2016.год.-158 и 2017.год.-175, али и у броју саопштења на домаћим скуповима – M60: 2012.год.-70, 2013.год.-44, 2014.год.-32, 2015.год.-33, 2016.год.-6 и 2017.год.-24, Табела 2.

Што се тиче цитиранисти, уочава се повећање броја цитираних радова и укупног броја цитата на JCR листи: 2012.год.-111 радова цитираних 258 пута, 2013.год.-112 радова цитираних 274 пута, 2014.год.-145 радова цитирана 318 пута, 2015.год.-157 радова цитираних 371 пут, 2016.год.-202 рада цитирана 474 пута и 2017.год.-221 рад цитиран 540 пута, Слика 3.

Радови категорије M21-M23 које су током 2017. године публиковали запослени на Техничком Факултету у Бору припадају следећим научним областима:

*Chemistry-Applied, Food Science & Technology, Nutrition & Dietetics, Environmental Sciences (7 radova), Chemistry-Physical (4 rada), Materials Science-Multidisciplinary (6 radova), Metallurgy & Metallurgical Engineering (12 radova), Electrochemistry (2 rada), Materials Science-Coatings & Films, Engineering-Multidisciplinary (4 rada), Materials Science-Composites (2 rada), Materials Science-Ceramics (7 radova), Physics-Atomic, Molecular & Chemical, Instruments & Instrumentation (2 rada), Environmental Studies, Forestry, Thermodynamics (2 rada), Engineering-Chemical (3 rada), Computer Science-Information Systems (4 rada), Computer Science-Software Engineering, Computer Science-Theory & Methods, Engineering-Electrical & Electronic (3 rada), Computer Science-Artificial Intelligence (8 radova), Mining & Mineral Processing, Mathematics (4 rada), Mathematics-Applied (5 radova), Geosciences-Multidisciplinary, Water Resources (2 rada), Automation & Control Systems (3 rada), Engineering-Manufacturing, Management (2 rada), Social Sciences-Interdisciplinary, Materials Science-Textiles, Meteorology & Atmospheric Sciences, Chemistry, Multidisciplinary, Mechanics (2 rada), Entomology, Mathematics-Interdisciplinary Applications (3 rada), Business, Economics (5 radova), Operations Research & Management Science, Materials Science-Characterization & Testing (2 rada), Engineering- Environmental.*

У области издавачке активности треба истаћи да је штампан приближно исти број уџбеничке литературе као и ранијих година, док је по питању издавања часописа стање у 2017. години идентично као у претходној години. Факултет је наставио да издаје своја четири традиционална часописа:

- 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)
- Reciklaža i održivi razvoj (ROR)

Од 2016. године Технички факултет у Бору издаје и први студентски часопис „Engineering Management“.

Током протекле године Факултет је успешно организовао пет научна скупа:

- XXV International Conference Ecological Truth (Eco-Ist 2017), Врњачка Бања, 12.-15. јун 2017. године
- 13th International May Conference on Strategic Management (MKSM 2017), Бор, 19.-21. мај 2017. године
- XII International Symposium on Recycling Technologies and Sustainable Development (RTSD 2017), Бор, 13.-15. септембар 2017. године
- 49th International October Conference on Mining and Metallurgy (IOC 2017), Бор, 18.-21. октобар 2017. године
- 7th International Symposium on Environmental and Materials Flow Management (EMFM 2017), Бор, 3.-5. новембар 2017. године

Технички факултет у Бору је организовао и три студенска научна скупа: 13. Студентски симпозијум о стратегијском менаџменту, 6. Студентски симпозијум „Рецлажне технологије и одрживи развој“ и 4th International student conference on Technical Sciences.

Као и сваке године, потписани су бројни билатерални споразуми и уговори о пословно-техничкој сарадњи са релевантним високошколским организацијама, научним институтима и другим установама из сродних области из Србије и иностранства.

Током 2017. године настављен је и успешан рад академских мрежа у којима је ТФ Бор активан партнери: Resita Network, MET-NET мрежа, EURAXESS мрежа, Српска национална мрежа технолошких брокера. Кроз актуелне међународне пројекте и међународне скупове које Факултет организује, остварени су даљи значајни контакти са уваженим академским и научним институцијама, што ствара повољну климу за развој даљих активности у смислу међународне размене студената и наставног особља.

У току 2017. године остварена је и мобилност студената и наставника у оквиру међународних пројеката. У оквиру програма Европске уније ERASMUS+KA1 студенти основних студија одсека за Инжењерски менаџмент су у току 2017. године имали могућност да део школовања (један семестар) остваре у иностранству (Финска), док су у оквиру међународног SATREPS пројекта, реализованог са Јапаном, студенти основних студија из Јапана боравили на Техничком факултету у Бору.

Акције везане за промоцију и популаризацију науке код младих настављне су и током 2017. године – одржана је Четврта Борска ноћ истраживача „БОНИС 2017“ у просторијама Студентског центра Бор, Шести фестивал науке Тимочки научни торнадо „ТНТ 17“ у просторијама О.Ш. „3. октобар“ у Бору, Четврти фестивал науке „ТНТ Зајечар“ у просторијама О.Ш. „Десанка Максимовић“ у Зајечару, Трећи фестивал науке „ТНТ Неготин“ у просторијама О.Ш. „Вук Каракић“ у Неготину, Први фестивал науке „ТНТ Књажевац“ у просторијама О.Ш. „Димитрије Тодоровић – Каплар“ у Књажевцу, Други фестивал науке „ТНТ Књажевац“ у просторијама О.Ш. „Димитрије Тодоровић – Каплар“ у Књажевцу, као и едукација ученика средњих школа у Зајечару, из области примене ИКТ у предузетништву, под називом „Примена HP LIFE програма за промоцију омладинског преузетништва“.

У оквиру прославе Дана студената Универзитета у Београду (4. април 2017. године) на Техничком факултету Бор су одржане две манифестације: Дан отворених врата и XV „Скок преко коже“ студената Техничког факултета у Бору.

Технички Факултет у Бору је у 2017. години имао и запажено учешће на четири сајма: 14. Међународни сајам образовања - EDUfair у Београду, 61. Међународни сајам технике и техничких достигнућа у Београду, 62. Међународни сајам књига у Београду и 10. Сајам образовања Звонце, одржан у оквиру 62. Међународног сајма књига у Београду.

На основу свега изложеног може се закључити да су резултати у области научноистраживачког рада и међународне сарадње на Техничком факултету у Бору, Универзитета у Београду, током 2017. године били задовољавајући, у великом броју сегмената чак и бољи него у претходном периоду, али да свакако треба радити на томе да они у предстојећем периоду буду још бољи.

у Бору, 12. 02. 2017. године

Подносилац извештаја

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проф. др Дејан Таникић  
продекан за НИР и МС ТФ Бор

Prilog 1.

**PREGLED REZULTATA NIR-A KOJE SU OSTVARILI NASTAVNICI I SARADNICI TF BOR  
U 2017. GODINI**

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Tip rezultata/kategorija prema MPNTR RS	Broj ostvarenih rezultata
<b>M13</b>	1
<b>M14</b>	6
<b>M21a + M21</b>	8+6=14
<b>M22</b>	27
<b>M23</b>	30
<b>M24</b>	21
<b>M28a</b>	1
<b>M31</b>	12
<b>M32</b>	1
<b>M33</b>	126
<b>M34</b>	36
<b>M36</b>	7
<b>M42</b>	2
<b>M49</b>	2
<b>M51</b>	17
<b>M52</b>	11
<b>M53</b>	9
<b>M55</b>	5
<b>M61</b>	1
<b>M63</b>	10
<b>M64</b>	13
<b>M66</b>	1
<b>M70</b>	3
<b>Udžbenici</b>	5

## **M13 - 1**

1. D. Brodić, A. Amelio, Z. Milivojević: Identification Issues in Pattern Analysis, Editors: Benjamin Santucci, Publisher: NOVA Science Publishers, Inc., Printed by NOVA Science Publishers, Inc., ISBN 978-1-53610-630-5; 978-1-53610-660-2 (e-book), pp. 1 - 36, 2017

## **M14 - 6**

1. D. Brodić, A. Amelio: Analysis of the Human-Computer Interaction on the Example of Image-Based CAPTCHA by Association Rule Mining, Editors: L. Gamberini et al. (Eds.), Publisher: Springer-Verlag, Printed by Springer International, ISBN 978-3-319-57752-4, pp. 38 - 51, 2017
2. D. Brodić, A. Amelio, Z. Milivojević N.: An Image Texture Analysis Method for Minority Language Identification, Editors: Valentin E. Brimkov; Reneta P. Barneva, Publisher: Springer International Publishing AG, Printed by Springer Nature, ISBN 978-3-319-59107-0, pp. 280 - 293, 2017
3. D. Brodić, A. Amelio, R. Jankovic, Z. Milivojević: Analysis of the Reforming Languages by Image-Based Variations of LBP and NBP Operators, Editors: Somnuk Phon-Amnuaisuk, Swee-Peng Ang, Soo-Young Lee, Publisher: Springer Nature, Printed by Springer International, ISBN 978-3-319-69455-9, pp. 238 - 251, 2017
4. D. Brodić, A. Amelio, N. Ahmad, S. Shahzad: Usability Analysis of the Image and Interactive CAPTCHA via Prediction of the Response Time, Editors: Somnuk Phon-Amnuaisuk, Swee-Peng Ang, Soo-Young Lee, Publisher: Springer Nature, Printed by Springer International, ISBN 978-3-319-69455-9, pp. 252 - 265, 2017
5. R. Nikolić, A. Fedajev, R. Milićević: Analysis of Financial Performances of Public Companies Operating in Serbia, In: Insights and potential sources of new entrepreneurial growth, Editors: Mirjana Radović Marković, Zorana Nikitović, Linjie Chou Zanadu, Publisher: Faculty of Business Economics and Entrepreneurship, 8 Mitropolita Petra Street, Belgrade, Serbia, Printed by “ValjevoPrint” Valjevo, ISBN 978-88-95922-84-3, pp. 190 - 219, 2017
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## **M21a - 8**

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Prilog 3.

**SPISAK DOMAĆIH PROJEKATA NA KOJIMA SU U PERIODU OD 2011.-2017. GODINE  
UČESTVOVALI ISTRAŽIVAČI SA TF BOR**

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

Osnovna istraživanja (OI) projekti - 9 projekata (rukovodioci 2 projekta su istraživači sa TF Bor)  
 Tehnološki razvoj (TR) projekti - 13 projekata (rukovodioci 3 projekta su istraživači sa TF Bor)  
 Integralna i interdisciplinarna istraživanja (III) projekti - 4 projekta

Red. br.	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 Štirbanović Dragiša Stanujkić	TR	33023 (225/275)	Institut za rударство i metalurgiju Bor	Dragan Milanović
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	Dušan Sokolović
3.	Zajednička istraživanja i uticaja ionizujućeg 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	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.	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	Viša Tasić
9.	Funkcionalna analiza, stohastička analiza i primene	Ivana Đolović, Ivana Stanišev	OI	174007 (146/395)	Prirodno matematički fakultet u Nišu	Dragan Đorđević
10.	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	Ana Kostov
11.	Razvoj tehnoloških procesa prerade nestandardnih koncentrata bakra u cilju optimizacije emisije zagadžujućih materijala	Nada Šrbac, Ivan Mihajlović, Milovan Vuković, Dejan Bogdanović, Aleksandra Mitovski, Milica Arsić, Đorđe Nikolić, Ivan Jovanović, Isidora Milošević, Jasmina Petrović	TR	34023 (50/275)	<b>Tehnički fakultet u Boru</b>	<b>Nada Šrbac</b>
12.	Razvoj novih i unapređenje postojećih tehnoloških postupaka proizvodnje tehničkih tekstilnih materijala	Snežana Urošević	TR	34020 (188/275)	Tehnološki fakultet u Leskovcu	Miodrag Stamenković
13.	Neki aspekti rastvaranja metala i prirodnih minerala	Milan Antonijević, Snežana Milić, Grozdana Bogdanović, Mile Dimitrijević, Marija Petrović Mihajlović, Milan Radovanović, Ana Simonović, Maja Trumić	OI	172031 (184/110)	<b>Tehnički fakultet u Boru</b>	<b>Milan Antonijević</b>
14.	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 Radojević, Tanja Kalinović, Jelena Strojić, Milan Gorgievski	III	46010 (13/110)	Tehnološko metalurški fakultet u Beogradu	Branko Bugarski

15.	Implementacija savremenijih tehničko-tehnoloških i ekoloških rešenja u postojećim proizvodnim sistemima Rudnika bakra Bor i Rudnika bakra Majdanpek	Milan Trumić, Jovica Sokolović, Zoran Štirbanović	TR	33007 (200/275)	Institut za tehnologiju nuklearnih i drugih mineralnih sirovina Beograd	Vladan Milošević
16.	Savremeni višekomponentni metalni sistemi i nanostrukturalni materijali sa različitim funkcionalnim svojstvima	Dragan Manasijević, Ljubiša Balanović, Uroš Stamenković	OI	172037 (4/395)	Tehnički fakultet u Boru	Dragan Manasijević
17.	Dinamika hibridnih sistema	Jelena Đoković	OI	174001 (268/395)	Matematički institut SANU Beograd	Katica Stevanović Hedrih
18.	Razvoj tehnologije proizvodnje Rd katalizatora-hvatača za smanjenje gubitaka platine u visoko temperaturnim procesima katalize	Saša Marjanović	TR	34029 (274/275)	Institut za rударство i metalurgiju Bor	Biserka Trumić
19.	Osvajanje proizvodnje livenih legura Cu-Au,Cu-Ag,Cu-Pt,Cu-Pd,Cu-Rh poboljšanih svojstava primenom mehanizma ojačavanja žarenjem	Desimir Marković, Dragoslav Gusković, Svetlana Ivanov, Ivana Marković, Saša Marjanović, Vesna Grekulović,	TR	34003 (192/275)	Tehnički fakultet u Boru	Desimir Marković
20.	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 rударство i metalurgiju Bor	Vesna Conić
21.	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 rударство i metalurgiju Bor	Milenko Ljubojev
22.	Problemi nelinearne analize, teorije operato-ra, topologije i primene	Darko Kocev	OI	174025 (197/395)	Prirodno matematički fakultet u Nišu	Vladimir Rakočević
23.	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	Dragoljub Đorđević
24.	Razvoj tehnologije za reciklažu plemenitih, retkih i pratećih metala iz čvrstog otpada Srbije do visokokvalitetnih proizvoda	Milan Gorgievski	TR	34024	Institut za rударство i metalurgiju Bor	Silvana Dimitrijević

25.	Usavršavanje tehnologije eksploatacije i prerade rude bakra sa monitoringom životne i radne sredine u RTB Bor-Grupa	Radoje Pantović, Nenad Vušović Vitomir Milić Miodrag Žikić, Snežana Šerbula, Miodrag Denić, Miodrag Banješević, Saša Stojadinović, Igor Svrkota, Jovica Sokolović, Dejan Petrović, Ana Radojević, Tanja Kalinović, Jelena Kalinović	TR	33038 (208/275)	Tehnički fakultet u Boru	Nenad Vušović
26.	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

## **SPISAK MEĐUNARODNIH PROJEKATA NA KOJIMA SU 2017. GODINE UČESTVOVALI ISTRAŽIVAČI SA TF BOR**

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**1. 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 rudarstva i energetike i Ministarstvo poljoprivrede i zaštite životne sredine. Saradnici na projektu sa TF Bor: prof. dr Grozdanka Bogdanović, prof. dr Milan Antonijević, prof. dr Dejan Tanikić, prof. dr Milan Trumić, prof. dr Nada Šrbac, prof. dr Snežana Milić, doc. dr Milan Radovanović, doc. dr Jovica Sokolović, doc. dr Saša Stojadinović, doc. dr Milan Gorgjevski, doc. dr Ljubiša Balanović, doc. dr Aleksandra Mitovski, doc. dr Vesna Fajnišević, doc. dr Marija Petrović, doc. dr Tanja Petrović, ass. Ana Radojević, ass. Žaklina Tasić i ass. Boban Spalović.

**2. Istraživački projekat Hrvatske zaklade za znanost: Dizajniranje mikrostruktura i funkcionalnih svojstava legura s prisjetljivosti oblika na bazi bakra, 2015.-2019.** 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, 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 Dragan Manasijević (TF Bor), prof. dr Stjepan Kožuh, prof. dr Robert Pezer, doc. dr Tamara Holjevac Grgurić (MF Sisak).

**3. Program bilateralne saradnje Srbije i Hrvatske: Development and characterization of innovative shape memory alloys in the Cu-Al-Mn-Me (Me = Ag, Au, Ce) system, 2016.-2017.** Projekat Metalurškog fakulteta u Sisku, Sveučilišta u Zagrebu (Hrvatska) i Tehničkog fakulteta u Boru, Univerziteta u Beogradu (Srbija). Rukovodioci projekta: doc. dr Tamara Holjevac Grgurić (MF Sisak), prof. dr Dragan Manasijević (TF Bor). Saradnici na projektu sa TF Bor: prof. dr Nada Šrbac, doc. dr Ljubiša Balanović, doc. dr Aleksandra Mitovski, Uroš Stamenković.

**4. Program naučne i tehnološke saradnje Srbije i Crne Gore: Ispitivanje termičkih, strukturnih i mehaničkih visokolegiranih alatnih čelika, 2016.-2018.** Rukovodioci projekta: prof. dr Nada Šrbac (TF Bor) i prof. dr Žarko Radović (MTF Podgorica). Saradnici na projektu sa TF Bor: prof. dr Dragan Manasijević, doc. dr Ljubiša Balanović, doc. dr Aleksandra Mitovski, doc. dr Milan Gorgjevski.

**5.** Program bilateralne saradnje Srbije i Slovačke: **Obrada signala primenom modela frakcionog reda, 2017.-2018.** Projekat Tehničkog fakulteta u Boru, Univerziteta u Beogradu (Srbija) i Tehničkog univerziteta u Košicama, Fakulteta rudarstva, ekologije, kontrole procesa i geotehnologije (Slovačka). Rukovodioci projekta: doc. dr Vladimir Despotović (TF Bor) i Tomaš Škovranek, naučni saradnik (Tehnički univerzitet u Košicama).

**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. Rukovodioci projekta: dr Marosi Ildiko (Keleti Faculty of Business and Management, Budimpešta) i prof. dr Ivan Mihajlović (TF Bor), 2015-2018. Oblast razmene [ISCED 2013]: 0411 Management, Business Administration, Economics. Nastavnici sa TF Bor, uključeni u aktivnosti mobilnosti preko ovog projekta: doc. dr Predrag Đorđević, prof. dr Đorđe Nikolić, prof. dr Ivana Đolović, doc. Dr Aleksandra Fedajev i doc. Dr Milica Arsić.

**7.** 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: University of Eastern Finland (Finska), Joensuu Campus, School of Forest Sciences i Univerzitet u Beogradu, Tehnički fakultet u Boru, Bor, Srbija. Rukovodioci projekta: prof. Jyrki Kangas, mr. Markku Ropo i ms. Kirsi Karjainen, University of Eastern Finland (Finska) i prof. dr Ivan Mihajlović (TF Bor), 2016. - 2017. Oblast razmene [ISCED 2013]: 0411 Management, Business Administration, Economics. Nastavnici sa TF Bor, uključeni u aktivnosti mobilnosti preko ovog projekta: prof. dr Đorđe Nikolić, prof. dr Ivan Mihajlović.

**8.** 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 Transylvania University in Brasov, Rumunija. Rukovodioci projekta: dr Luminita Parv (Transsylvania University in Brasov, Rumunija) i prof. dr Ivan Mihajlović (TF Bor), 2017-2019. Oblast razmene [ISCED 2013]: 0411 Management, Business Administration, Economics, kao i 0710 Engineering and Engineering Trades. Aktivnosti mobilnosti biće organizovane tokom 2018.

**SPISAK PROJEKATA IZ OKVIRA SARADNJE SA PRIVREDOM NA KOJIMA SU 2017.  
GODINE UČESTVOVALI ISTRAŽIVAČI SA TF BOR**

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**Projekti, studije, elaborati**

1. R. Pantović, S. Stojadinović, M. Žikić, N. Vušović, P. Stojković, Analiza geodetskih opažanja i pomeranja terena u neposrednoj blizini površinskog kopa Velika poljana 2 u Rgotini, 2017.
2. N. Vušović, Tehnički rudarski projekat određivanja parametara pomeranja potkopanog terena i zaštite objekata sela Sladaja od uticaja podzemnih rudarskih radova iznad jame „Strmosten“ u RMU „Rembas“, 2017.
3. R. Pantović, J. Ivaz, Studija o rezultatima monitoringa seizmičkih efekata pri izvođenju miniranja na Površinskom kopu „Južni revir“ u toku 2016. godine po usvojenoj korigovanoj ponudi VII/4-401/3 od 29.11.2017. god., 2017.
4. R. Pantović, J. Ivaz, Izrada mesečnih izveštaja o analizi rezultata monitoringa seizmičkih efekata pri izvođenju miniranja na površinskom kopu Veliki Krivelj, a u svemu prema usvojenoj ponudi izvršioca broj VII/4-1227 od 11. 07. 2017. godine, korigovanoj ponudi broj VII/4-1227/2 od 17. 07. 2017. godine i Projektnom zadatku broj 126/1943 od 06.07.2017. godine.
5. D. Marković, V. Bogdanović, Aneks Ugovora o kontroli kvaliteta čeličnih šipki i čeličnih kugli, 2017.
6. R. Pantović, S. Stojadinović, D. Petrović, M. Voza, D. Trujić, Studija o geomehaničkim ispitivanjima uzoraka tla za potrebe „Rakita Exploration doo Bor“, 2017.
7. M. Trumić, D. Radulović, Lj. Andrić, M. Trumić, Studija istraživanja uticaja smanjenja sadržaja metala u ulaznoj rudi na vrednost Bond-ovog radnog indeksa Pb-Zn rude iz rudnika „Grot – Kriva Feja – Vranje“
8. M. Trumić, D. Radulović, Lj. Andrić, M. Trumić, Studija mogućnosti gravitacijske predkoncentracije Pb-Zn rude iz rudnika „Grot“, 2017.

### **Tehničke kontrole projekata, veštačenja**

1. R. Pantović, S. Stojadinović, D. Petrović, Tehnička kontrola „Rudarskog projekta na istraživanju čvrstih mineralnih sirovina u hidrotermalnom Cu-Au sistemu Čukaru Peki izradom niskopa“, 2017.
2. R. Pantović, S. Stojadinović, M. Žikić, Veštačenje incidenta na mašini za dubinsko istražno bušenje, na osnovu Ponude br. VII/4-587/3 od 25.04.2017. godine, 2017.
3. M. Žikić, Z. Marković i M. Tasić (spoljni saradnik), Tehnička kontrola „Glavnog rudarskog projekta nadgradnje jalovišta „Valja Fundata“ iznad K+520“ - Sveska 1, Tehnički tehnološko-mašinski projekat izmeštanja cevovoda i ploveće pumpne stanice, 2017.

## OSTALE AKTIVNOSTI U OBLASTI NIR-A NA TEHNIČKOM FAKULTETU U BORU U 2017. GODINI

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### **I Izdavačka delatnost**

Tehnički Fakultet u Boru izdaje četiri naučna časopisa: *Journal of Mining and Metallurgy*, *Section A: Mining* (JMM-A); *Journal of Mining and Metallurgy, Section B: Metallurgy* (JMM-B) (štampa se od 1997. godine 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* (ROR) (štampa se od 2008. godine kao nacionalni časopis). Svi časopisi finansirani su od strane MPNTR RS.

Podaci o aktuelnom pozicioniranju časopisa koje publikuje Tehnički Fakultet u Boru tokom prethodne godine (prema [http://kobson.nb.rs/nauka\\_u\\_srbiji/kategorizacija\\_casopisa\\_.33.html](http://kobson.nb.rs/nauka_u_srbiji/kategorizacija_casopisa_.33.html)):

- **Journal of Mining and Metallurgy, Section A: Mining (JMM-A)**, svrstan je u kategoriju **M51** (prema kategorizaciji domaćih naučnih časopisa u oblasti energetike, rudarstva i energetske efikasnosti za 2016. godinu).
- **Journal of Mining and Metallurgy, Section B: Metallurgy (JMM-B)**, svrstan je u kategoriju **M22**, sa IF(2016)=0,804 i mesto 42/74 (prema kategorizaciji naučnih časopisa u oblasti Metallurgy & Metallurgical Engineering, za 2016. godinu), kao i petogodišnji IF=0,807 i mesto 42/74 u pomenutoj oblasti.
- **Serbian Journal of Management (SJM)**, svrstan je u kategoriju **M24** (odgovara klasifikaciji Q3 prema Scimago Journal & Country Rank (SJR) za 2016. godinu) i **M51** (prema kategorizaciji domaćih naučnih časopisa u oblasti ekonomije i organizacionih nauka za 2016. godinu).
- **Reciklaža i održivi razvoj (ROR)**, svrstan je u kategoriju **M52** (prema kategorizaciji domaćih naučnih časopisa u oblasti materijala i hemijskih tehnologija i prema kategorizaciji domaćih naučnih časopisa za uređenje, zaštitu i korišćenje voda, zemljišta i vazduha) i **M53** (prema kategorizaciji domaćih naučnih časopisa u oblasti energetike, rudarstva i energetske efikasnosti).

Od 2016. godine Tehnički fakultet izdaje i prvi studentski časopis **“Engineering Management”**.

### **II Organizacija naučnih skupova**

- **XXV International Conference Ecological Truth (Eco-Ist 2017)**, Vrnjačka Banja, 12.-15. jun 2017. godine. Organizator je TF Bor a suorganizatori: Univerzitet u Zagrebu Metalurški fakultet Sisak, Univerzitet „Dimitrie Cantemir“ Fakultet za menadžment i trgovinu Temišvar, Univerzitet u Prištini Fakultet tehničkih nauka Kosovska Mitrovica, Institut za

rudarstvo i metalurgiju Bor, Zavod za zaštitu prirode Srbije i Društvo mlađih istraživača Bor. Skup je finansiran od strane MPNTR RS (predsednik organizacionog odbora je prof. dr R. Pantović).

- **13<sup>th</sup> International May Conference on Strategic Management (MKSM 2017)**, Bor, 19.-21. maj 2017. godine. Organizator je TF Bor (predsednik organizacionog odbora je doc. dr P. Djordjević).
- **XII International Symposium on Recycling Technologies and Sustainable Development (RTSD 2017)**, Bor, 13.-15. septembar 2017. godine. Organizator je TF Bor (predsednik organizacionog odbora je prof. dr G. Bogdanović).
- **49<sup>th</sup> International October Conference on Mining and Metallurgy (IOC 2017)**, Bor, 18.-21. oktobar 2017. godine. Organizatori su TF Bor i IRM Bor. Skup je finansiran od strane MPNTR RS (predsednik organizacionog odbora je doc. dr I. Marković).
- **7<sup>th</sup> International Symposium on Environmental and Materials Flow Management (EMFM 2017)**, Bor, 3.-5. novembar 2017. godine. Organizator je TF Bor, a suorganizatori: Trier University of Applied Sciences, Environmetal Campus in Birkenfeld, Germany i University of Zenica, Faculty of Mechanical Engineering, Zenica, Bosnia and Herzegovina (predsednik organizacionog odbora je prof. dr Đ. Nikolić).

U okviru skupova **MKSM 2017** i **RTSD 2017** nastavljeno je sa organizacijom odgovarajućih studentskih simpozijuma: **13. Studentski simpozijum o strategijskom menadžmentu** (predsednik organizacionog odbora je MSc I. Nikolić) i **6. Studentski simpozijum “Recklažne tehnologije i održivi razvoj”** (predsednik organizacionog odbora je doc. dr Z. Širbanović). U okviru **IOC 2017** organizovan je **4<sup>th</sup> International student conference on Technical Sciences** (predsednik organizacionog odbora je doc. dr Lj. Balanović).

### **III Potpisani sporazumi o bilateralnoj saradnji sa fakultetima i institucijama iz inostranstva**

- Institut za crnu metalurgiju a.d. – Nikšić, Crna Gora
- Faculty in Business and Management, University of Ruse, Ruse, Bulgaria
- Metalurško – tehnički fakultet Univerziteta u Zenici, Bosna i Hercegovina
- Faculty of International Resource Sciences, Akita University, Japan
- China University of Petroleum, Beijing, China
- Faculty of Mechanical and Safety Engineering, University OBUDAI, Budapest, Hungary
- The Faculty of Electronics of National Technical University of Ukraine „Kiev Polytechnic Institute”, Ukraine
- Saobraćajni fakultet u Doboju, Univerziteta u Istočnom Sarajevu, RS – Bosna i Hercegovina
- Faculty of Science and Forestry of the University of Eastern Finland, Joensuu and Kuopio, Finland
- The Federal State Budgetary Educational Institution of Higher Education „The Russian Presidential Academy of National Economy and Public Administration – RANEPA“, Russia
- Univerzitet „Sv. Kiril i Metodij“, Tehnološki metalurški fakultet, Skopje, Makedonija
- University of Chemical Technology and Metallurgy, Sofia, Bulgaria
- Fakulta socialnych vied, Univerzita sv. Cyrila a Metoda v Trnave, Slovakia

- Chemical Department, Buryat State University from Ulan-Ude, Russia
- Physico-Technical Department, Buryat State University from Ulan-Ude, Russia
- Faculty of Technological Engineering and Industrial Management, Transilvania University of Brasov
- Institute of Geotechnics of Slovak Academy of Sciences, Slovakia
- Faculty of Metallurgy, Technical University of Košice, Slovakia
- Faculty of Mechanics and Technology, Rzeszow University of Technology, Poland
- Faculty of Economics, University „Eftimie Murgu“, Resita, Romania
- Металуршки факултет у Сиску, Свеучилишта у Загребу, Хрватска
- Faculty of Mines, University of Mining and Geology „St. Ivan Rilski“, Sofia, Bulgaria
- University American College Skopje, Macedonia
- Faculty of Chemistry, University Paisii Hilendarski, Plovdiv, Bulgaria
- Faculty of Natural Sciences and Engineering, University of Ljubljana, Slovenia
- Ekonomski fakultet Univerziteta u Zenici, Bosna i Hercegovina
- Faculty of natural and technical sciences, University of Štip, Macedonia
- Fakultet za metalurgiju i materijale Univerziteta u Zenici, Bosna i Hercegovina
- Rudarski fakultet u Prijedoru, Univerziteta u Banja Luci, RS - Bosna i Hercegovina
- Tehnološki fakultet u Zvorniku, Univerziteta u Istočnom Sarajevu, RS - Bosna i Hercegovina
- Tehnološki fakultet u Banja Luci, Univerziteta u Banja Luci, RS - Bosna i Hercegovina
- Faculty of Engineering, University „Eftimie Murgu“, Resita, Romania
- Rudarsko geološko-građevinski fakultet, Univerziteta u Tuzli, Bosna i Hercegovina
- Metalurško – tehnoški fakultet u Podgorici, Univerziteta Crne Gore, Crna Gora
- Fakultet kemijskog inženjerstva i tehnologije, Sveučilišta u Zagrebu, Hrvatska
- Institute of Powder Metallurgy, Central South University, China
- Faculty of Materials Science and Engineering, The „Gheorghe Asachi“, Technical University from Iasi, Romania
- Faculty of Economy, Tirana University, Albania
- Faculty of Economic Sciences and Law, University of Pitesti, Romania

#### **IV Potpisani sporazumi o bilateralnoj saradnji sa fakultetima i institucijama iz Srbije**

- Mašinski fakultet u Nišu, Univerzitet u Nišu, Niš
- Matematički institut SANU, Beograd
- Fakultet za hotelijerstvo i turizam u Vrnjačkoj banji, Univerziteta u Kragujevcu
- Institut za hemiju, tehnologiju i metalurgiju u Beogradu, Univerziteta u Beogradu
- Institut za nuklearne nauke „Vinča“, Univerziteta u Beogradu
- Institut za rударство i metalurgiju u Boru
- Institut za tehnologiju nuklearnih i drugih mineralnih sirovina, Beograd
- Fakultet tehničkih nauka u Novom Sadu, Univerziteta u Novom Sadu
- Rudarsko geološki fakultet u Beogradu, Univerziteta u Beogradu
- Tehnološki fakultet u Novom Sadu, Univerziteta u Novom Sadu
- Tehnološki fakultet u Leskovcu, Univerziteta u Nišu
- Fakultet tehničkih nauka u Kosovskoj Mitrovici, Univerziteta u Prištini
- Tehnološko – metalurški fakultet u Beogradu, Univerziteta u Beogradu

## **V Učešće u akademskim i drugim mrežama; Mobilnost studenata i nastavnog kadra**

### ***a. 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), Slovačke (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).

### ***b. 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. Tokom 2017. godine, ova mreža je prestala da dobija finansije od strane DAAD asocijacije. Ipak, aktivnosti same mreže su nastavljene i dalje. U okviru Resita mreže su tokom 2017. godine, organizovana dva istraživačka projekta za studente doktorskih studija: 1. „Corporate social responsibility – entrepreneurial approach“, kao i 2. „Factors influencing SMEs failure“.

### ***c. MET-NET mreža***

Od 2008. godine, TF Bor je 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.

### ***d. 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](http://www.euraxess.rs)) koja brine o mobilnosti istraživača i time se priključila evropskom istraživačkom prostoru.

### ***e. Nacionalna mreža tehnoloških brokera***

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

*f. Mobilnost studenata u okviru programa "ERASMUS +" ključne akcije 1- mobilnost studenata, nastavnog i nenastavnog osoblja*

Studenti Milena Arsić, Momir Popović i Jelena Zdravković, studenti osnovnih akademskih studija, Odseka za menadžment, Tehničkog fakulteta u Boru boravili su u okviru ostvarivanja dela studijskog programa (prolećni semestar 2016/2017. godine) na University of Eastern Finland (Finska).

*g. Aktivnosti i mobilnost u okviru medjunarodnog projekta JST SATREPS (Japan)*

U okviru projekta JST SATREPS (Research on the Integration System of Spatial Environment Analyses and Advanced Metal Recovery to Ensure Sustainable Resource Development), koji Tehnički Fakultet Bor realizuje zajedno sa Institutom za Rudarstvo i Metalurgiju Bor i Faculty of International Resource Sciences, Akita Univerziteta iz Japana, realizovana je poseta nastavnika i studenata iz Japana Tehničkom fakultetu u Boru. Tokom druge polovine avgusta 2017. godine izvedena su zajednička terenska istraživanja u oblasti žaštite životne sredine, pri čemu su uglavnom tretirana zagađena područja Bora i Majdanpeka.

## **VI Promocija i popularizacija nauke**

Tokom 2017. godine, TF Bor je nastavio sa svojim tradicionalnim aktivnostima u okviru promocije i popularizacije nauke.

- **Četvrta Borska noć istraživača “BONIS 2017”** održana je 29.09.2017. godine u prostorijama Studentskog centra Bor. Organizatori i realizatori: Tehnički fakultet u Boru, Studentski centar Bor, O.Š. “3. oktobar” Bor, O.Š. “Dušan Radović” Bor, O.Š. “Sveti Sava” Bor, OŠ “Stanoje Miljković” Brestovac, Tehnička škola Bor, Gimnazija “Bora Stanković” Bor, Društvo mlađih istraživača Bor, Muzej rudarstva i metalurgije u Boru, Regionalni centar za talente Bor (Učesnici sa TF Bor: Lj. Balanović, A. Mitovski, V. Grekulović, I. Marković, M. Gorgievski, U. Stamenković, M. Radovanović, J. Milosavljević, M. Bošković, M. Nujkić, S. Stojadinović)
- **Šesti festival nauke Timočki naučni tornado “TNT 17”**, održan je 4.11.2017. godine u prostorijama O.Š. “3. oktobar” u Boru. Organizatori i realizatori: Tehnički fakultet u Boru, OŠ “3. oktobar” Bor, Društvo mlađih istraživača Bor, Tehnička škola u Boru, Regionalni centar za talente, Muzej rudarstva i metalurgije i U.G. “Village”. Projekat je finansijski podržan od strane Ministarstva omladine i sporta Republike Srbije i Centra za promociju nauke Srbije (Učesnici sa TF Bor: Lj. Balanović, A. Mitovski, I. Marković, V. Grekulović, M. Radovanović, Ž. Tasić, D. Medić, M. Gorgievski, S. Stojadinović, M. Nujkić, J. Milosavljević, M. Bošković).
- **Četvrti festival nauke TNT Zaječar “TNT 17”**, održan je 26.11.2017. godine u O.Š. “Desanka Maksimović” u Zaječaru. Organizatori i relizatori: Tehnički fakultet u Boru, O.Š. “Desanka Maksimović” Zaječar, Tehnička škola u Boru, Društvo mlađih istraživača Bor (Učesnici sa TF Bor: Lj. Balanović, M. Gorgievski, V. Grekulović, M. Radovanović, Ž. Tasić, J. Sokolović).

- **Treći festival nauke TNT Negotin “TNT 17”**, održan je 23.12.2017. godine u O.Š. “Vuk Karadžić” u Negotinu. Organizatori i realizatori: Tehnički fakultet u Boru, O.Š. “Vuk Karadžić” Negotin, Društvo mladih istraživača Bor i Tehnička škola u Boru, (Učesnici sa TF Bor: Lj. Balanović, A. Mitovski, M. Gorgievski, D. Medić, I. Djordjević, S. Stojadinović).
- **Prvi festival nauke TNT Knjaževac “TNT 17”**, održan je 03.06.2017. godine u O.Š. “Dimitrije Todorović – Kaplar” u Knjaževcu. Organizatori i realizatori: Tehnički fakultet u Boru, O.Š. “Dimitrije Todorović – Kaplar” Knjaževac, Društvo mladih istraživača Bor, Tehnička škola u Boru i Naučni klub Knjaževac (Učesnici sa TF Bor: M. Gorgievski, U. Stamenković).
- **Drugi festival nauke TNT Knjaževac “TNT 17”**, održan je 16.12.2017. godine u O.Š. “Dimitrije Todorović – Kaplar” u Knjaževcu. Organizatori i realizatori: Tehnički fakultet u Boru, O.Š. “Dimitrije Todorović – Kaplar” Knjaževac, Društvo mladih istraživača Bor, Tehnička škola u Boru i Naučni klub Knjaževac (Učesnici sa TF Bor: Lj. Balanović, A. Mitovski).
- **Edukacija učenika srednjih škola u Zaječaru**, iz oblasti primene IKT u preduzetništvu. Naziv trodnevnog kursa: “Primena HP LIFE programa za promociju omladinskog preuzetništva”. U okviru ovih kurseva obuku je završilo 36 učenika iz Tehničke škole, Ekonomskog fakulteta i Gimnazije u Zaječaru. Obuka je organizovana u periodu novembar – decembar 2017. Tim koji je realizovao obuku: I. Mihajlović, Đ. Nikolić, P. Đorđević, M. Jeftić i B. Ivanov.

U okviru proslave Dana studenata Univerziteta u Beogradu (4. april 2017. godine) na Tehničkom fakultetu su održane dve manifestacije:

- Dan otvorenih vrata, sa ciljem upoznavanja budućih bručaša sa mogućnostima studiranja na Tehničkom Fakultetu u Boru.
- XV „Skok preko kože“ studenata Tehničkog fakulteta u Boru.

## **VII Učešće Tehničkog Fakulteta u Boru na sajmovima**

Tehnički Fakultet u Boru je u 2017. godini imao zapaženo učešće na četiri sajma, i to:

- 14. Međunarodni sajam obrazovanja - EDUFair u Beogradu, 10.-11. marta 2017. god.
- 61. Međunarodni sajam tehnike i tehničkih dostignuća u Beogradu, 15.-19. maja 2017. god.
- 62. Međunarodni sajam knjiga u Beogradu, 22.-29. oktobra 2017. god.
- 10. Sajam obrazovanja Zvonce, održan u okviru 62. Međunarodnog sajma knjiga u Beogradu, 25.-29. oktobra 2017. god.

## **VIII Studijski boravci ili posete univerzitetetima iz inostranstva**

*Mart 2017. god.*

- Doc. dr Milan Radovanović je boravio u Japanu (SATREPS projekat)

*April 2017.*

- Prof. dr Ivan Mihajlović i prof. dr Đorđe Nikolić boravili su u Finskoj (Erasmus+ projekat)
- Prof. dr Dragan Manasijević i Doc. dr Ljubiša Balanović boravili su u Hrvatskoj (bilateralna saradnja sa Hrvatskom)
- Doc. dr Predrag Đorđević, Andelka Stojanović i Dušan Bogdanović boravili su u Rusiji (Internacionalna konferencija koju finansira RANEPA Academy Moscow)

*Maj 2017. god.*

- Doc. dr Ivana Marković i Doc. dr Ljubiša Balanović boravili su u Hrvatskoj (Erasmus+ projekat)
- Prof. dr Zoran Marković učestvovao je na internacionalnoj konferenciji u Rumuniji

*Jun 2017. god.*

- Prof. dr Nada Štrbac i Prof. dr Dragan Manasijević boravili su u Crnoj Gori (bilateralna saradnja sa Crnom Gorom)
- Prof. dr Darko Brodić učestvovao je na internacionalnoj konferenciji u Bugarskoj

*Septembar 2017. god.*

- N. Štrbac, D. Manasijević, S. Mladenović i A. Mitkovski boravili su Sloveniji gde su posetili Prirodno tehnički fakultet u Ljubljani

*Novembar 2017. god.*

- Prof. dr Nada Štrbac, prof. dr Dragan Manasijević i prof. dr Dejan Tanikić boravili su u Slovačkoj gde su prisustvovati proslavi 65. godina Fakulteta za metalurgiju, materijale i reciklažu Tehničkog Univerziteta Košice
- Prof. dr Ivan Mihajlović učestvovao je na internacionalnoj konferenciji u Bosni i Hercegovini
- Prof. dr Ivana Đolović, prof. dr Đorđe Nikolić, doc. dr Aleksandra Fedajev i doc. dr Milica Arsić boravili su u Mađarskoj (Erasmus+ projekat)

*Decembar 2017. god.*

- Prof. dr Ivan Mihajlović učestvovao je na internacionalnoj konferenciji u Mađarskoj
- Prof. dr Dejan Tanikić učestvovao je na internacionalnoj konferenciji u Italiji

## **IX Studijski boravci ili posete sa drugih univerziteta iz inostranstva**

*Maj 2017. god.*

- Japanska delegacija (JST SATREPS projekat). Prof. dr Daizo Ishiyama i grupa profesora sa Akita University, održali su više sastanaka u Beogradu i Boru sa članovima JST SATREPS projekta iz Japana i Srbije.
- Finska delegacija (ERASMUS+ projekat). Prof. Jyrki Kangas i prof. Teppo Hujala sa University of Eastern Finland posetili su Tehnički fakultet u Boru, održali niz predavanja i uzeli učešće na Majskoj konferenciji o strategijskom menadžmentu.
- Sari Pitkanen sa University of Eastern Finland posetila je TF Bor.

*Avgust 2017. god.*

- Tehnički fakultet u Boru bio je domaćin gostima sa Akita univerziteta iz Japana, koji su posetili Fakultet u okviru SATREPS projekta 15. i 16. avgusta 2017. godine. Takođe je organizovan i održan sastanak sa prof. dr Daizo Ishiyama i timom JST SATREPS projekta iz Japana i Srbije na Tehničkom Fakultetu Bor.
- Poseta g-dina Soyama Tsunenari, zamenika direktora JICA (Japan International Cooperation Agency) iz Japana.

*Septembar 2017. god.*

- Poseta profesora dr Atsushi Shibayama sa Akita University, Japan.
- Slavomir Hredzak sa Institute of Geotechnics, Slovak Academy of Sciences, Department of Physical and Physicochemical Mineral Processing Methods, Košice, Slovačka posetio je TF Bor.

*Oktobar 2017. god.*

- Poseta profesora iz Mađarske, sa Obuda univerziteta, preko ERASMUS + mobilnosti za predavače. U ovoj grupi bili su profesori Karlovitz János Tibor, Piricz Noémi i Keszthelyi András.

*Novembar 2017. god.*

- Poseta sa Univerziteta u Brašovu (Rumunija), preko ERASMUS + mobilnosti za trening, prof. Luminita Perv, koordinator centra za ekonomske studije ovog Univerziteta.
- Fakultet je posetio prof. Jukka Tikkanen, sa Univerziteta istočna Finska, koji je održao predavanje na temu „Ekonomija i menadžment“.

### **X Prezentacije, predavanja i nagrade**

- Dana 25.01.2017. godine na Tehničkom fakultetu u Boru je održano predavanje o Erasmus + programu i načinima uključivanja u ključnu aktivnost KA1 - Projekti mobilnosti studenata, nastavnog i nenastavnog osoblja. Predavanje je održao prof. dr Ivan Mihajlović, ESPB koordinator.
- Centar za razvoj karijere u saradnji sa Tehničkim fakultetom u Boru realizovao je u periodu od 11. maja do 15. juna 2017. godine onlajn kurs „Veštine upravljanja karijerom“ na e-Learnig platformi Računskog centra Univerziteta u Beogradu. Polaznici su bili studenti osnovnih, master i doktorskih studija Tehničkog fakulteta u Boru.
- U toku Internacionalne nedelje na Tehničkom fakultetu u Boru, 16. maja 2017. godine realizovan je istraživački seminar na temu „BioEconomy and sustainable development“. Tom prilikom, profesori Jyrki Kangas i Teppo Hujala sa Univerziteta Istočna Finska prezentovali su nastavnom osoblju i studentima doktorskih studija svoj univerzitet, kao i mogućnosti akademске razmene, zajedničkih istraživanja i projekata. Nakon diskusije i zaključaka svih učesnika ovog istraživačkog seminara, dogovorene su smernice za dalju saradnju ove dve visokoškolske institucije.

- Profesor Daizo Ishiyama i studenti Akita univerziteta obišli su laboratorije i mineralošku zbirku Tehničkog fakulteta u Boru, 15. i 16. avgusta 2017. godine, a zatim su predavači sa TF Bor: doc. dr S. Stojadinović, doc. dr Lj. Balanović, doc. dr M. Radovanović i doc. dr A. Radojević održali seriju predavanja na temu rudarskih, metalurških i tehnoloških procesa, kao i predavanje sa temom zaštite životne sredine.
- Tokom druge polovine avgusta izvršena su zajednička terenska istraživanja studenata osnovnih studija sa Faculty of International Resource Sciences, Akita University iz Japana i studenata Tehničkog fakulteta u Boru u oblasti zaštite životne sredine (Bor i Majdanpek) u okviru medjunarodnog projekta JST SATREPS (Research on the Integration System of Spatial Environment Analyses and Advanced Metal Recovery to Ensure Sustainable Resource Development). Na samom kraju su održane prezentacije rezultata višednevnih aktivnosti studenata i članova JST SATREPS projekta u Institutu za rudarstvo i metalurgiju u Boru.
- Projektni tim Tehničkog fakulteta u Boru, u sastavu: prof. dr Đ. Nikolić, doc. dr A. Fedajev, S. Arsić, I. Veličkovska, M. Stanujkić, N. Balašević, A. Stanujkić, N. Ilić, D. Gavrilović i D. Dimitrijevska osvojio je nagradu za najbolje brending rešenje u iznosu od 400 000 dinara, na Konkursu za izbor najboljih projektnih ideja, koji je raspisala Razvojna agencija Srbije.
- Studenti D. Bogdanović, S. Blagojević, N. Tomić i D. Bogosavljević nagrađeni su povodom Dana Univerziteta, 13. septembra, za rad pod nazivom „Primena hibridnog ABC-ANP modela na primeru odlučivanja u prehrambenoj industriji“.
- Dana 01.11.2017.godine, prof. Noemi Piricz studentima master studija održala je predavanja na temu „Business Relationships in Supply Chains, u okviru predmeta Logistika.
- Dana 01.11.2017.godine prof. András Keszthelyi održao je predavanje na dodiplomskom nivou studija, na temu „SSL Certificates“.
- Dana 02.11.2017. godine Tibor Karlovitz je održao više predavanja na temu „Razvoj karijere“. Takođe, u sklopu predmeta Menadžement informacioni sistemi profesor András Keszthelyi održao je još jedno predavanje na temu „Ethical questions of the virtual world“.