



19th INTERNATIONAL FOUNDRYMEN CONFERENCE

Humans - Valuable Resource for Foundry Industry Development

Split, June 16th-18th, 2021

<https://ifc.simet.hr/>

University of Zagreb
Faculty of Metallurgy
Sisak, Croatia



University of Ljubljana
Faculty of Natural Sciences and Engineering
Ljubljana, Slovenia



University North
Koprivnica, Croatia



Technical University of Košice
Faculty of Materials, Metallurgy and Recycling
Košice, Slovakia



University of Split
Faculty of Chemistry and Technology
Split, Croatia



ELKEM AS
Norway



organize

19th INTERNATIONAL FOUNDRYMEN CONFERENCE

with motto

**Humans - Valuable Resource for Foundry Industry
Development**

PROGRAMME

Split, June 16th – 18th, 2021



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WEDNESDAY / June 16th, 2021

17:00 – 18:00	REGISTRATION OF PARTICIPANTS NEXT TO AMPHITHEATER A02
18:00 - 19:00	CONFERENCE OPENING FACULTY OF CHEMISTRY AND TECHNOLOGY: AMPHITHEATER A02 (GROUND FLOOR OF III FACULTY BUILDING) (ADDRESS: RUĐERA BOŠKOVIĆA 33 - ENTRANCE ON GROUND FLOOR – SOUTH, SPLIT)
SPECIAL PLENARY LECTURES SECTION Moderators: Coorganizers' Representatives	
19:00 – 19:45	<u>Luka Čadež</u> MORE THEN A MANUFACTURER - BRODOSPLIT
20:00 – 23:00	WELCOME COCKTAIL THE VASKO LIPOVAC UNIVERSITY GALLERY (ADDRESS: RUĐERA BOŠKOVIĆA 31, SPLIT)

THURSDAY / June 17th, 2021

08:00 – 09:00	REGISTRATION OF PARTICIPANTS NEXT TO AMPHITHEATER A02
SPECIAL PLENARY LECTURES SECTION Moderators: Zdenka Zovko Brodarac, Gordana Gojsević Marić, Jožef Medved	
09:00 – 09:45	Denisa Anca, Mihai Chisamera, Stelian Stan, Julian Riposan SOLIDIFICATION PATTERN OF HIGH-SI DUCTILE IRON CASTINGS IN THE PRESENCE OF MOULD COATINGS WITH S OR O CONTENT AND WITH OR WITHOUT PROTECTIVE AGENTS FOR THEIR DIFFUSION INTO THE IRON MELT
9:45 – 10:30	Doru M. Stefanescu , Gorka Alonso, Ramon Suarez NUCLEATION AND CRYSTALLIZATION OF SPHEROIDAL GRAPHITE IN CAST IRON
10:30 – 10:40	COMMERCIAL PRESENTATION GOLDEN SPONSOR – LABTIM ADRIA d.o.o., Zagreb (HR)



THURSDAY / June 17th, 2021

INVITED LECTURES

Moderators: Zdenka Zovko Brodarac, Gordana Gojsević Marić, Jožef Medved

10:40 – 11:00	<u>Varužan Kevorkijan</u> MICROSTRUCTURE AND FORMABILITY DEVELOPMENT IN AI STRIP CASTING FOR QUALITY - DEMANDING FOIL PRODUCTION
11:00 – 11:20	<u>Sonja Jožić</u> SEMI - SOLID METAL PROCESSING; CHALLENGES AND INOVATIONS
11:20 – 11:50	COFFEE BREAK

INVITED LECTURES & ORAL PRESENTATION SECTION

Moderators: Varužan Kevorkijan, Primož Mrvar

11:50 – 12:10	<u>Jožef Medved</u> , Maja Vončina, Stanislav Kores, Matej Mesarič PRINCIPLE OF TITANIUM DIOXIDE REDUCTION IN LIQUID ALUMINIUM
12:10 – 12:25	<u>Mitja Petrič</u> , Bastri Zeka, Tilen Balaško, Primož Mrvar, Boštjan Markoli PRODUCTION AND CASTING OF AISi7MgLi ALLOY
12:25 – 12:45	<u>Iveta Vasková</u> , Petra Delimanová, Martina Hrubovčáková, Marianna Bartošová BENTONITE – ECOLOGICAL BINDING MATERIAL OF FIRST GENERATION AND ITS USING IN FOUNDRY
12:45 – 12:55	COMMERCIAL PRESENTATION GOLDEN SPONSOR – COMET d.o.o., Novi Marof (HR)

INVITED LECTURES & ORAL PRESENTATION SECTION

Moderators: Varužan Kevorkijan, Primož Mrvar

12:55 – 13:15	<u>Dražan Kozak</u> , Katarina Monkova, Darko Damjanović, Marina Franulović, Jerzy Jozwyk, Katarina Pisačić EXPERIMENTAL AND NUMERICAL ANALYSIS OF PRINTED LATTICE STRUCTURE
13:15 – 13:30	<u>Jure Krolo</u> , Ivana Dumanić, Sonja Jožić, Branimir Lela INFLUENCE OF SEMI-SOLID METAL PROCESSING AND ARTIFICIAL



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	AGING ON MICROSTRUCTURE AND HARDNESS OF THE AlSi9Cu3(Fe)
13:30 – 13:50	Vladimír Krutiš , Václav Káňa, Marek Dostál, Jarmil Cileček EFFICIENT METHOD OF MANUFACTURING DEMANDING PROTOTYPE CASTINGS USING INVESTMENT CASTING TECHNOLOGY
13:50 – 15:00	CONFERENCE LUNCH OUTSIDE OF III FACULTY BUILDING (IN FRONT OF THE MAIN ENTRANCE)
INVITED LECTURES & ORAL PRESENTATION SECTION Moderators: Dražan Kozak, Iveta Vaskova	
15:00 – 15:20	Primož Mrvar , Milan Terčelj, Mitja Petrič, Danijel Mitrović, Goran Kugler DAMAGE ANALYSIS OF COMPACTED GRAPHITE CAST IRON
15:20 – 15:35	Branko Bauer , Ivana Mihalic Pokopec, Marko Šaban EFFECT OF HIGH SILICON CONTENT ON THE PROPERTIES OF DUCTILE IRON CASTINGS
15:35 – 15:55	Hasan Avdušinić , Almajda Gigović - Gekić, Šehzudin Dervišić INFLUENCE OF ELEVATED WORKING TEMPERATURES ON MECHANICAL PROPERTIES OF AUSTEMPERED DUCTILE IRON
16:00 – 17:00	POSTER SECTION COFFEE BREAK IN FRONT OF AMPHITHEATER A02
17:00 – 18:30	LABORATORIES VISIT Moderators: Faculty of Chemistry and Technology: Dražan Jozić, Franko Burčul Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture: Jure Krolo, Zvonimir Dadić
21:00 –	CONFERENCE GALA DINNER, RESTAURANT GUSAR ADDRESS: SPINUTSKA 69, SPLIT



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FRIDAY / May 18th, 2021	
09:00 - 11:30	WORK VISIT – BRODOSPLIT d.d. ADRESS: PUT SUPAVLA 19, 21000, SPLIT
12:00 - 14:30	SPLIT SIGHTSEEING TOUR MEETING POINT: DIOCLETIAN'S PALACE PUBLIC MOCK-UP AT EAST SIDE OF THE SPLIT MAIN PROMENADE: https://goo.gl/maps/NAdbXaKkyLvTgSBp8
15:00 - 16:15	CONFERENCE LUNCH STUDENT RESTAURANT „KAMPUS“ (ADDRESS: CVITE FISKOVIĆA 3, SPLIT)
INVITED LECTURES & ORAL PRESENTATION SECTION Moderators: Ladislav Lazić, Mario Nikola Mužek	
16:15 – 16:30	<u>Karlo Jurković</u> , Sebastjan Kastelic, Primož Mrvar, Branko Bauer APPLICATION OF COMPUTER SIMULATION FOR VERTICAL CENTRIFUGAL CASTING
16:30 – 16:50	<u>Dario Iljkić</u> , Sunčana Smokvina Hanza, Božo Smoljan, Loreta Pomenić, Lovro Štic, Lovro Liverić LOAD CAPACITY AND CORROSION BEHAVIOR OF QUENCHED AND TEMPERED STEEL 42CrMo4 AND CAST STEEL GS-42CrMo4
16:50 – 17:05	<u>Barbara Tubić Bulat</u> , Zdenka Zovko Brodarac, Primož Mrvar NUCLEATION AND GRAPHITE GROWTH IN NODULAR CAST IRON - AN OVERVIEW
17:05 – 17:25	<u>Dragan Manasijević</u> , Ljubiša Balanović, Ivana Marković, Milan Gorgievski, Uroš Stamenković, Kristina Božinović STRUCTURAL AND THERMAL PROPERTIES OF THE Sn-Zn ALLOYS
17:25 – 18:00	COFFEE BREAK
INVITED LECTURES & ORAL PRESENTATION SECTION Moderators: Dario Iljkić, Ladislav Vrsalović	
18:00 – 18:20	<u>Irena Žmak</u> , Ida Mujkić DEMAND, SUPPLY, ENERGY CONSUMPTION AND SUSTAINABILITY OF PRIMARY AND SECONDARY COPPER PRODUCTION



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18:20 – 18:35	Almaida Gigović - Gekić , Hasan Avdušinić, Amna Hodžić, Dejana Kasapović INFLUENCE OF ANNEALING OF AUSTENITIC STAINLESS STEELS ON PITTING CORROSION RESISTANCE
18:35 – 18:50	Ladislav Lazić, Martina Lovrenić-Jugović , Lorena Mrkobrada, Željko Grubišić, Damijan Cerinski POSSIBILITY OF ENERGY EFFICIENCY IMPROVING OF THE MELTING FURNACE IN SECONDARY ALUMINIUM PRODUCTION
18:50 – 19:05	Vladimir Krutiš, Martin Madaj , Vlastimil Kolda CO-DESIGN IN CASTING - A WAY TO ACHIEVE OPTIMAL DESIGN AND PRODUCTION OF CASTINGS
19:05 – 19:20	Dipak Ghosh MODERN ALPHASET (APNB)-REFINED FORMULATIONS WITH BETTER UNDERSTANDING OF CHEMISTRY
19:20 – 19:35	Peter Hajdich, Mile B. Đurđević, Srećko Manasijević IMPROVING THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF EN AC 43200 CAST ALUMINUM ALLOY MODIFIED WITH ZIRCONIUM
19:35 –	CONFERENCE CLOSING AMPHITHEATER A02

SPONSOR EXHIBITION		
17:00 – 18:00	WEDNESDAY / June 16th 2021	EXHIBITION HALL IN FRONT OF AMPHITHEATER A02
09:00 – 17:00	THURSDAY / June 17th, 2021	
15:30 – 19:35	FRIDAY / May 18th, 2021	



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POSTER SECTION / THURSDAY / June 17th, 2021, 16:00 – 17:00

IN FRONT OF AMPHITHEATER A02

Moderators: Martina Lovrenić-Jugović, Zvonimir Dadić

Authors should be available for presentation and individual talk on

Anita Bašić, Mario Nikola Mužek, Marija Ćosić, Sandra Svilović
THE COPPER ADSORPTION ON ZEOLITE NaX - THE IMPELLER LOCATION IMPACT

Sandra Brajčinović, **Anita Begić Hadžipašić**, Franjo Kozina
INHIBITORY EFFECT OF COMMERCIAL INHIBITOR VCI 379/611 ON CORROSION
BEHAVIOR OF X153CrMoV12 TOOL STEEL FOR COLD WORK

Sandra Brajčinović, Anita Begić Hadžipašić
CORROSION RESISTANCE OF CEMENTING STEEL X19NiCrMo4
IN MEDIUM OF 5% NaOH AND 5% H₂SO₄

Anđela Čović, Pero Dabić, Damir Barbir
ACTIVITY ASSESSMENT OF PHOTSENSITIVE DYES ANTHOCYANIN, RHODAMINE B,
RUTHENIUM N3 AND RHODAMINE B+ANTHOCYANIN MIXTURE FOR APPLICATION
IN SOLAR CELLS

Ivana Gabelica, **Lidija Čurković**, Vilko Mandić, Mihone Kerolli Mustafa
PREPARATION AND CHARACTERIZATION OF POROUS ALUMINA CERAMICS USING
WASTE COFFEE GROUNDS (WCG)

Ivana Gabelica, **Lidija Čurković**, Ivana Panžić
RAPID MICROWAVE-ASSISTED SYNTHESIS OF Fe₃O₄/SiO₂/TiO₂ CORE-SHELL
NANOCOMPOSITE

Stanisław Gil, Wojciech Bialik, Bolesław Machulec, Agnieszka Tomaszewska,
Sławomir Kozłowski
IMPACT OF FeSi FERROALLOY CASTING CONDITIONS ON THEIR STRUCTURE AND
GRAIN SIZE AFTER CRUSHING PROCESS

Ivan Jandrić, Franjo Kozina, Tin Brlić, Milica Vučenović
INFLUENCE OF COLD REDUCTION ON THE STRUCTURE AND HARDNESS OF COLD
DRAWN COPPER WIRE

Sebastjan Kastelic, Almir Mahmutović, Matic Žbontar, Primož Mrvar, Mitja Petrič
MAKING PROTOTYPE CASTING USING 3D PRINTING AND INVESTMENT CASTING

Angela Kapitanović, Lana Brkić, Helena Pintarić, Dajana Mikić, **Helena Otmačić
Čurković**
PREPARATION AND CHARACTERIZATION OF ARTIFICIAL PATINA ON BRONZE



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POSTER SECTION / THURSDAY / June 17th, 2021, 16:00 – 17:00

IN FRONT OF AMPHITHEATER A02

Franjo Kozina, Zdenka Zovko Brodarac, Ivan Jandrić, Renato Jagustović
ANALYSIS OF THE CRACK FORMATION IN ASIS M2 HIGH SPEED TOOL STEEL DURING UTILIZATION

Stjepan Kožuh, Ivana Ivanić, Semir Oraščanin, Aleš Nagode, Ladislav Vrsalović
MICROSTRUCTURE AND MICROHARDNESS OF Cu-Al-Mn-Zr ALLOYS BEFORE AND AFTER HEAT TREATMENT

Stjepan Kožuh, Domagoj Kovačević, Ivana Ivanić, Borut Kosec, Mirko Gojić
CHARACTERIZATION OF WELDED DUPLEX STAINLESS STEEL AFTER ANNEALING

Filipa Krželj, Irena Žmak, Milan Vukšić, Lidija Čurković
RHEOLOGICAL PROPERTIES OF WATER-BASED ALUMINA SUSPENSIONS IN RECYCLING WASTE ALUMINA POWDER

Darko Landek, Lidija Čurković, Ivana Gabelica
SIMULATION MODEL OF CONVENTIONAL SOLID STATE SINTERING OF Al₂O₃ CERAMICS

Vaso Manojlović, Željko Kamberović, Miroslav Sokić, Branislav Marković, Milorad Gavrilovski, Slobodan Radosavljević
IMPACT OF MOULD POWDER ON PHYSICOCHEMICAL PROPERTIES OF SLAG IN THE CONTINUOUS CASTING PROCESS

Daniel Novoselović, Stefanija Klarić, Francois Botha, Saša Gojković
POSSIBILITIES OF ONLINE LABORATORY PRACTICALS IN TEACHING OF CASTING COURSES

Daniel Novoselović, Stefanija Klarić, Josip Cumin, Saša Štrbac
DETERMINATION OF RESIDUAL STRESSES IN STRESS LATTICE WITH SIMULATION SOFTWARE

Katarina Pantović Spajić, **Branislav Marković**, Miroslav Sokić, Mladen Bugarčić, Gvozden Jovanović, Vaso Manojlović, Ksenija Stojanović
CHEMICAL LEACHING OF SUBBITUMINOUS COAL FROM THE BOGOVINA - EAST FIELD (BOGOVINA BASIN, SERBIA) USING HYDROCHLORIC ACID

Ladislav Vrsalović, Senka Gudić, Verena Šučurović, Ivana Ivanić, Stjepan Kožuh, Mirko Gojić
CORROSION STUDY OF CuAlNi ALLOY IN STIRRED H₂SO₄ SOLUTION

Anamarija Stoilova Pavasovic, Frano Barbir
PRELIMINARY STUDY ON TEMPERATURE DISTRIBUTION PATTERNS IN PEM FUEL CELLS



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POSTER SECTION / THURSDAY / June 17th, 2021, 16:00 – 17:00

IN FRONT OF AMPHITHEATER A02

Ivan Stojanović, **Ivan Cindrić**, **Lara Janković**, Daniela Rakela Ristevski
EVALUATION OF INFRARED DRIED SOLVENT-BORNE COATINGS

Ivan Stojanović, **Anna Poropat**
ANTICORROSIVE TESTING OF ELECTROSTATIC POWDER COATING ON DIFFERENT
ELECTRO-RESISTANCE WELD TYPES

Zrinka Švagelj, Vera Rede, Ivana Gabelica, **Lidija Ćurković**
EFFECT OF BINDER ADDITION ON THE RHEOLOGICAL BEHAVIOUR OF ALUMINA
SUSPENSIONS

Nediljka Vukojević Medvidović, Ladislav Vrsalović, Teo Ugrina, Ivona Jukić
ELECTROCOAGULATION AUGMENTED WITH NATURAL ZEOLITE – THE NEW
HYBRID PROCESS FOR TREATMENT OF LEACHATE FROM COMPOSTING OF
BIOWASTE



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STUDENT SECTION / FRIDAY / June 18th 2021

FACULTY OF CHEMISTRY AND TECHNOLOGY: LECTURE HALL E402 (IV FLOOR)

(ADDRESS: RUĐERA BOŠKOVIĆA 35, SPLIT)

Moderator: Ivana Ivanić, Sandra Svilović

16:15 – 16:30	Ivan Betlehem , Matija Bušić PLASMA ARC WELDING OF STAINLESS STEELS
16:30 – 16:45	Zvonimir Dadić, Zrinka Magazinović, Igor Ćulum THE IMPACT OF FURNACE ATMOSPHERE DURING QUENCHING OF C45E STEEL ON MICROSTRUCTURE, HARDNESS AND IMPACT TOUGHNESS
16:45 – 17:00	Petra Delimanová , Iveta Vasková, Vladimír Šabík, Lukáš Fogaraš BINDER AS BASIC FACTOR IN CORES PRODUCED BY COLD BOX ON SURFACE QUALITY OF CASTING
17:00 – 17:15	Vjeran Furlan , Anita Begić Hadžipašić ELECTROCHEMICAL INVESTIGATIONS OF CORROSION BEHAVIOR OF GRAY AND NODULAR CAST IRON IN THE MEDIUM OF ARTIFICIAL SEAWATER
17:15 – 17:30	Antea Hrepić , Ivana Smoljko ALGAE – THE FUTURE OF CORROSION PROTECTION?
17:30 – 18:00	COFFEE BREAK
18:00 – 18:15	Radosna Jerčić , Ladislav Vrsalović ELECTROCHEMICAL BEHAVIOUR OF CuAlMnZn ALLOY IN NaCl SOLUTION
18:15 – 18:30	Eldar Jusić , Ahmed Grahić, Nesib Jašarević, Almaida Gigović-Gekić EFFECT OF COOLING RATE AT MICROSTRUCTURE AND HARDNESS OF STEEL 42CrMo4
18:30 – 18:45	Josipa Šarić , Teo Ugrina, Branko Stanišić, Ladislav Vrsalović INVESTIGATION OF MECHANICAL PROPERTIES OF HIGH STRENGTH SHIPBUILDING STEEL LR-AH36 AT DIFFERENT TEMPERATURES
18:45 – 19:00	Patrik Tarandek , Zdenka Zovko Brodarac, Franjo Kozina IMPACT OF MODIFICATION AND WALL THICKNESS ON THE PROPERTIES OF AISI12 ALLOY
19:00 – 19:15	Valentina Županić , Sanja Šolić INFLUENCE OF HEAT TREATMENT ON THE PROPERTIES OF MARAGING STEEL PRODUCED BY ADDITIVE SELECTIVE LASER MELTING PROCESS












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SPONSORSHIP CATEGORY	COMPANY	COMPANY LOGO
CO-ORGANIZER	ELKEM ASA, Oslo (NO)	
GOLDEN SPONSOR	COMET d.o.o., Novi Marof (SI)	
	LABTIM ADRIA Ltd, Sesvete (HR)	
BRONZE SPONSOR	Kontroltest International d.o.o., Zagreb (HR)	
	EDC d.o.o., Zagreb (HR)	
	IDEF d.o.o., Zagreb (HR)	
	Tvornica gline Kutina d.o.o., Kutina (HR)	
	MECAS ESI s.r.o., Plzen (CZ) & TC LIVARSTVO Ltd, Ljubljana (SI), Livarna Titan d.o.o., Kamnik (SI)	
	LTH Metalni lijev d.o.o., Benkovac (HR)	



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SPONSORSHIP CATEGORY	COMPANY
MEDIA COVER	IRT 3000
	Foundry Planet
	Foundry Lexicon
SUPPORTING ASSOCIATION AND COMPANIES	Slovenian Foundry Association
	Croatian Foundry Association



Position of buildings related to 19 IFC events on Campus Split



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III Faculty building (congress venue)

Information on taxi transport in Split

Cammeo taxi Split:

<https://cammeo.hr/en/cities/split>

tel: +38521313313

Uber taxi Split:

<https://www.uber.com/global/en/cities/split/>

Eko Taxi Split:

URL: <https://ekotaxi.hr/gradovi/split>

tel: [021 223 223](tel:021223223)

Žuti taxi Split:

tel: [+385 21 208 208](tel:+38521208208)

Auto taxi Split:

[http://www.radio-taxi-](http://www.radio-taxi-split.hr/?gclid=CjwKCAjw47eFBhA9EiwAy8kzNCQwdCCGIB8kHIZ2weWsqJhs3mkX9w6J_UIPGvJrAa2vxOyLLdtKUxoCbq8QAvD_BwE)

[split.hr/?gclid=CjwKCAjw47eFBhA9EiwAy8kzNCQwdCCGIB8kHIZ2weWsqJhs3mkX9w6J_UIPGvJrAa2vxOyLLdtKUxoCbq8QAvD_BwE](http://www.radio-taxi-split.hr/?gclid=CjwKCAjw47eFBhA9EiwAy8kzNCQwdCCGIB8kHIZ2weWsqJhs3mkX9w6J_UIPGvJrAa2vxOyLLdtKUxoCbq8QAvD_BwE)

tel: +38521473737

Taxi transfer services:

[https://www.taxi-transfers-](https://www.taxi-transfers-services.com/?gclid=CjwKCAjw47eFBhA9EiwAy8kzNGFEP-IHBo15IHA3I7kTJPS719HZigDu6SeQWVrzSe1OMWJ4FgChYhoCV-cQAvD_BwE)

[services.com/?gclid=CjwKCAjw47eFBhA9EiwAy8kzNGFEP-](https://www.taxi-transfers-services.com/?gclid=CjwKCAjw47eFBhA9EiwAy8kzNGFEP-IHBo15IHA3I7kTJPS719HZigDu6SeQWVrzSe1OMWJ4FgChYhoCV-cQAvD_BwE)

[IHBo15IHA3I7kTJPS719HZigDu6SeQWVrzSe1OMWJ4FgChYhoCV-cQAvD_BwE](https://www.taxi-transfers-services.com/?gclid=CjwKCAjw47eFBhA9EiwAy8kzNGFEP-IHBo15IHA3I7kTJPS719HZigDu6SeQWVrzSe1OMWJ4FgChYhoCV-cQAvD_BwE)



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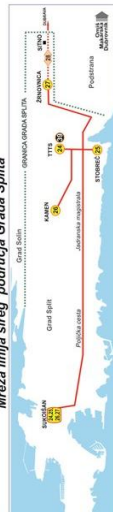
LEGENDA

- POČETNO - ZAVRŠNO STAJALIŠTE
- PROMETIVANE LINIJE U JEDNOM SMJERU
- PROMETIVANE LINIJE U OBAJ SMJERU
- AUTOBUSNO STAJALIŠTE

1 STARIJE INK. STARIJE
2 ZNAČALJKA STARIJE - STARIJE - ZNAČALJKA
3 K. SUCOČAK STARIJE - SPINUT - K. SUCOČAK STARIJE
4 DRAGODVODE
5 DRAGODVODE - K. SUCOČAK STARIJE - DRAGODVODE
6 DRAGODVODE - K. SUCOČAK STARIJE - DRAGODVODE
7 ZNAJAN - SPINUT - ZAP. OBLAŠA - ZAP. OBLAŠA - SPINUT - ZNAJAN
8 ZNAJAN - SPINUT - ZAP. OBLAŠA - ZAP. OBLAŠA - SPINUT - ZNAJAN
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10 ZNAJAN - SPINUT - ZAP. OBLAŠA - ZAP. OBLAŠA - SPINUT - ZNAJAN
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28 JAPRIKO - BELICE - TRAJETALJUNA - BELICE - JAPRIKO
29 JAPRIKO - BELICE - TRAJETALJUNA - BELICE - JAPRIKO
30 JAPRIKO - BELICE - TRAJETALJUNA - BELICE - JAPRIKO

171 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
172 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
173 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
174 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
175 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
176 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
177 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
178 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
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182 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
183 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
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187 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
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200 PAX - BELICE - TRAJETALJUNA - BELICE - PAX

191 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
192 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
193 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
194 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
195 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
196 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
197 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
198 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
199 PAX - BELICE - TRAJETALJUNA - BELICE - PAX
200 PAX - BELICE - TRAJETALJUNA - BELICE - PAX



City bus lines

