

17. - 19. 10. 2018. - Hotel Ambassador, Opatija, Croatia

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**GOMA**

Excellence

Energy

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PROGRAM SCHEDULE

**THE 51<sup>ST</sup> GOMA SYMPOSIUM – FUELS 2018**

**17.10.2018.**  
**from 13.00 on**  
**SYMPOSIUM INFO DESK IN HOTEL AMBASADOR**

**REGISTRATION OF PARTICIPANTS**  
**Symposium proceedings and Accreditation badge**  
**will be given to participants after registration.**

**starting at 15.00**  
**HOTEL AMBASADOR CONFERENCE HALL**

15.00 – 15.15  
Opening – Welcome Address from Organiser

15.15 – 16.30  
Opening Section: Energy & Policy Trends

*Moderator: Adriana Petrović, GOMA*

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**Energy Union and Oil and Gas in the Energy Mix**

Ilona Vári

MOL Group Corporate Affairs, Hungary

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**Political and Market Conditions Delay Uniform  
Approach for Fuel Quality**

Huiming Li

Stratas Advisors, Singapore

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**EU Fuel Decarbonisation Policy Framework for the  
Period of 2021-2030**

Balázs Tóth

MOL Group Corporate Affairs, Hungary

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**16.30 – 17.00**  
**COFFEE BREAK**

17:00 - 18.15  
Energy & Policy Trends

*Moderator: Neda Marčec Rahelić, GOMA*

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**Alternative Diesel Fuels for Compression Ignition Engines**

András Holló, Jenő Hancsók Orsolya Tóth, Olivér Visnyei  
University of Pannonia, Veszprém, Hungary

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**REACH Regulation After May 2018**

Mirela Mavrinac  
INA - Industrija nafte d.d., Croatia

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**Refinery Margin Demystified**

Vedran Česnik  
INA - Industrija nafte d.d., Croatia

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**18.30-20.00**  
**WELCOME DRINK**



**18.10.2018.**  
**starting at 9.00**  
**HOTEL AMBASADOR CONFERENCE HALL**

9.00 – 9.15

Welcome Address from Gold Sponsor

9.15 – 10.45

Efficiency, Optimization and Energy Savings

*Moderator: Igor Šepić, INA*

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**INA's Refining System Optimization**

Damir Miletić

INA - Industrija nafte d.d., Croatia

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**KT's Experiences through Optimization and Improvement of Efficiency and Technologies**

Paolo Mazzara, Alessia Mangiapane

KT Kinetics Technology, Italy

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**Proper Material Selection in Refinery Valves**

Kyle Rayhill

Metso USA Inc., USA

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**10.45 – 11.15**  
**COFFEE BREAK**

11.15 - 12.30

Efficiency, Optimization and Energy Savings

*Moderator: Ivana Lukec, GOMA*

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**Tube Inserts for Heat Exchangers - for Energy Conservation**

Nicolas Aubin

Petroval, France

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**Heat Exchanger Diagnostics**

Željka Ujević Andrijić<sup>1</sup>, Bolf Nenad<sup>1</sup>, Sergej Horvat<sup>2</sup>

<sup>1</sup>University of Zagreb, Faculty of Chemical Engineering and Technology, <sup>2</sup> INA d.d. Rijeka Refinery

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**Risk Management Modeling for Increasing the Reliability**

Jelena Ivančan, Dragutin Lisjak

INA - Industrija nafte d.d., Croatia

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**12.30 - 14.30**  
**LUNCH BREAK**

14.30 – 16.00

Process Excellence & Technological Solutions

*Moderator: András Holló, University of Pannonia*

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**Prepare Your Refinery for the Next Decade**

Antoine Fournier

Axens, France

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**Modernization of INA's Platforming 2**

Iris Barbarić

INA - Industrija nafte d.d., Croatia

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**Addressing Refractory Feedstocks in Hydrocracking**

Roger Torres

Axens, France

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**Flare Gas Recovery System in INA Refinery Rijeka -  
"Turnkey" Solution**

Marko Lukačević, Ivan Boras, Nikola Dupor

IVICOM Consulting d.o.o., Croatia

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16.00 – 16.15

**Introduction of New Issue of FUELS & LUBRICANTS  
Magazine**

Sanda Telen, F&L Magazine Editor-In-Chief

**16.15 – 16.45  
COFFEE BREAK**

## 16.30 – 17.30 POSTER SECTION

### **Growing Advanced Industrial Crops on Marginal Lands for Biorefineries**

Slavica Rukavina, Mladen Ištuk, Boris Slijepčević,  
INA – Industrija nafte d.d., Croatia

### **Challenges of Modern Petroleum Analytics**

Lucija Kurte, Tatjana Tomić, Jelena Parlov Vuković, Lana Magić, Lucija Konjević, Iva Beer Romac, Ljiljana Marinić Pajc, Dunja Šeremešić / INA - Industrija nafte d.d., Croatia

### **Fire Protection System Standardization in INA Plc**

Josip Vrabec, Angelika Brnada / INA - Industrija nafte d.d., Croatia

### **An Overview of Limiting Values of Polluted Technosols Based on the Example of the Gas Station Remediation**

Ivica Kisić, Sanja Mesić, Kristina Marković, Antonija Jonjić  
Faculty of Agriculture University of Zagreb, Croatia

### **Compressor Operation in Nitrogen Mode as Innovation**

Ivo Korić, Gregor Buhaneč, Katarina Imbrišić, Luka Talajić  
INA - Industrija nafte d.d., Croatia

### **Racing Fuel Development**

Franjo Ondrušek, Ivana Štagljar Mikac, Maja Lovretin  
INA - Industrija nafte d.d., Croatia

### **Comparison of Crude Oil Assays Data with Data Generated from Different Applications and Post Evaluation Report**

Lucija Konjević, Maja Fabulić-Ruszkowski  
INA - Industrija nafte d.d., Croatia

### **Rijeka Oil Refinery Energy Savings Potentials Through Steam Trap Management Program and Efficient Energy Production at Remote Locations**

Almir Sedić, Igor Šepić, Mladen Vuleta, Sonja Kaplar, Danijel Pavković, Stjepko Katulić /INA - Industrija nafte d.d., Croatia

### **Investigation of Pyrolysis Oil from Waste Tires for Refinery Utilization**

Maja Fabulić Ruszkowski <sup>1</sup>; Dijana Blažek <sup>2</sup>, Jelena Parlov Vuković <sup>2</sup>, Aleksandra Sander <sup>3</sup>, Ana Lekić <sup>3</sup>

<sup>1</sup> INA, Refinery and Marketing Development, Advanced Technology & Product Development, Zagreb, <sup>2</sup> INA, Refinery and Marketing Development, Central Testing Laboratory, Zagreb, <sup>3</sup> Department of Mechanical and Thermal Process Engineering, Faculty of Chemical Engineering and Technology, University of Zagreb, Croatia

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**Why Pay? – Compensate!**

Zvonimir Pojer, Renato Lusičić, Željko Beljan, Sanjin Jurešić  
INA - Industrija nafte d.d., Croatia

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**Slop Processing in Crude Distillation Unit**

Vedran Dobrovolny, Andreja Prtenjak-Ferić,  
Anabela Kos / INA - Industrija nafte d.d., Croatia

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**Cultivation of Marine Cyanobacteria and Diatoms on Refinery Waste Water**

Biserka Lukarić Špalj<sup>1</sup>, Andrea Budiša<sup>2</sup>, Ines Haberle<sup>2</sup>, Enis Hrustić<sup>2</sup>, Lana Magić<sup>1</sup>, Tina Šilović<sup>2</sup>, Maria Blažina<sup>2</sup>

<sup>1</sup>INA - Industrija nafte d.d., Urinj, Croatia

<sup>2</sup>Ruđer Bošković Institute-Center for Marine Research, Rovinj, Croatia

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**Determination of Manganese content in Unleaded Gasoline by Flame Atomic Absorption Spectrometric Method**

Štefica Čelap, Zrinka Srdović

INA - Industrija nafte d.d., Croatia

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**Crude Oil Corrosivity Monitoring in Laboratory - Corrosion Assay**

Dunja Šeremešić, Tatjana Tomić, Ljiljana Marinić

Pajc, Branka Špehar, Iva Sanja Beer Romac

INA - Industrija nafte d.d., Centralni ispitni laboratorij Zagreb, Croatia

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**19.30**

**PRE-DINNER WINE RECEPTION – KINDLY  
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**20.00**

**GALA DINNER & ENTERTAINMENT**

**19.10.2018.**  
starting at 9.30  
**HOTEL AMBASADOR CONFERENCE HALL**

9.00 - 10.30  
Environmental Preservation & Waste to Energy

*Moderator: Ilona Vári, MOL*

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**Tackling the Dual Challenges of Climate Change and Urban Air Quality**

Marta Yugo  
Concawe, Belgium

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**Introduction of HOMATECH-W Technology**

Ferenc Kovács, László Farkas, Géza Varga  
Incubation Center, OT Industries, Hungary

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**The Role of Advanced Biofuels in Meeting National Targets**

Ivana Čović Knezović  
INA - Industrija nafte d.d., Croatia

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**10.30 - 11.00**  
**COFFEE BREAK**

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Croatian Society for Fuels and Lubricants

Berislavićeva 6, HR-10000 Zagreb

[www.fuels.goma.hr](http://www.fuels.goma.hr)



11.00 - 12.00  
Research & Development

*Moderator: Roberta Gorup, INA*

**Modeling a Reaction Section of a Commercial Continuous Catalytic Reformer**

Mirko Stijepović<sup>1</sup>, Igor Dejanović<sup>2</sup>, Aleksandar Grujić<sup>3</sup>, Merva Vojtech<sup>4</sup>, Saša Polovina<sup>5</sup> <sup>1</sup>Faculty of Technology and Metallurgy, University of Belgrade, Serbia, <sup>2</sup> Faculty of Chemical Engineering and Technology, University of Zagreb, Croatia, <sup>3</sup> Institute of Chemistry, Technology and Metallurgy, University of Belgrade, Serbia, <sup>4</sup> MOL, Budapest, Hungary, <sup>5</sup> INA/STSI – MOL, Zagreb, Croatia

**Refinery Integrated Hydrocarbon Production - the bioCRACK Process and Liquid Product Upgrading**

Klara Treusch<sup>1</sup>, Nikolaus Schwaiger<sup>2</sup>, Peter Pucher<sup>3</sup>, Matthäus Siebenhofer<sup>4</sup>, Hrvoje Šoprek<sup>5</sup>, Lucija Kurte<sup>6</sup>  
<sup>1, 2, 3, 4</sup> BDI - BioEnergy International GmbH, Austria,  
<sup>5, 6</sup> INA – Industrija nafte d.d., Croatia

**Hydrothermal Gasification of *Chlorella Vulgaris* and *Chlorella Zofingiensis* for the Production of Fuel Gases**

Daniel Fozer, Andras Jozsef Toth, Bernadett Kiss, Tibor Nagy, Aron Nemeth, Peter Mizsey  
Budapest University of Technology and Economics, Hungary

**12.00**  
**CLOSING OF THE SYMPOSIUM**

Symposium organization:

*Ivana Lukec – chair*

*Adriana Petrović – co-chair*

Sanda Telen

*Neda Marčec Rahelić*

*Roberta Gorup*

*Bruno Novina*

Symposium Secretary:

*Andrina Barbarić*

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