9TH EUROPEAN COMBUSTION MEETING 2019

14 - 17 April, 2019 | Lisboa | Portugal

TÉCNICO LISBOA

CONFERENCE PROGRAMME

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14 - 17 April, 2019 | Lisboa | **Portugal**

PROGRAMME

TÉCNICO LISBOA

ORGANISERS:

Portuguese Section of the Combustion Institute
Instituto Superior Técnico, University of Lisboa, Portugal

Local Organising Committee:

Mário Costa
Instituto Superior Técnico, University of Lisboa

Miriam Rabaçal
Aerothermochemistry and Combustion Systems Laboratory, ETH Zurich

Edgar Fernandes
Instituto Superior Técnico, University of Lisboa

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PROGRAMME

TIME	**Sunday** April 14th, 2019	**Monday** April 15th, 2019	**Tuesday** April 16th, 2019	**Wednesday** April 17th, 2019
8:00-17:30		Registration	Registration	Registration
8:30-9:00		**Opening ceremony**		
9:00-10:00		Plenary lecture 1 **Mara de Joannon**	Plenary lecture 3 **Pascale Desgroux**	Plenary lecture 5 **Zeynep Serinyel**
10:00-10:30		Coffee break	Coffee break	Coffee break
10:30-12:30		**Poster session 1** • Reaction kinetics I • Laminar flames I • Solid fuels I • IC engines I • Soot and nanomaterials I	**Poster session 3** • Reaction kinetics III • IC engines II • Laminar flames II • Porous media	**Poster session 5** • Reaction kinetics IV • Soot and nanomaterials II • Stationary combustion systems and environmental impacts • Turbulent combustion II
12:30-14:00		Lunch	Lunch	**Closing ceremony** **Lunch**
14:00-15:00		Plenary lecture 2 **Ruud Eggels**	Plenary lecture 4 **Zhongshan Li**	
15:00-15:30	Registration	Coffee break	Coffee break	
15:30-17:30		**Poster session 2** • Turbulent combustion I • Reaction kinetics II • Diagnostics • Droplets and sprays • Gas turbines • Fires	**Poster session 4** • Propellants • Solid fuels II • New concepts in combustion technology • Laminar flames III	
17:30-19:00	**Welcome reception**	**Meeting of the European Federation of Combustion Sections**		
19:00-19:45				
20:00-23:00		**Young researchers get together**	**Banquet**	

SOCIAL PROGRAMME

WELCOME RECEPTION

Sophia de Mello Breyner Room, Oceanário de Lisboa

Esplanada D. Carlos I - 1990-005 Lisboa, Portugal

The Sophia de Mello Breyner room offers a panoramic view of the River Tagus. Sophia de Mello Breyner Andresen was an awarded and decorated Portuguese poet and writer, having won acclaim as a storyteller and published a number of children books, several poetry books and anthologies. The sea is probably the most central theme in her poetical work. The room is located in the premisses of the Oceanário de Lisboa - The Lisbon Oceanarium - the largest indoor aquarium of Europe built for the World Expo 1998. The Lisbon Oceanarium's conceptual design, architecture, and exhibit design was led by Peter Chermayeff of Peter Chermayeff LLC. It is said to resemble an aircraft carrier, and is built on a pier in an artificial lagoon. The Lisbon Oceanarium has a large collection of marine species, including fish, echinoderms, cnidaria, mollusks, amphibians, mammals, birds, plants and other marine organisms.

BANQUET

Kais restaurant

Cais da Viscondessa, R. Cintura do Porto, 1200-109 Lisboa, Portugal

Restaurant Kais is housed in a late XIX century old warehouse, by the riverside, which was used to generate energy for Portuguese trams that still work in our days. The warehouse was fully recovered and is now one of the most beautiful restaurants you will ever see.

The actual design and decoration were conceived with much honour, by a very famous Portuguese Interior Decorator, Maria José Salavisa, who respected the industrial roots of the warehouse. Maria José Salavisa believed that the industrial epóque style was a winner. Reflected in the building, is the theory of the Arquitect Otto Wagner, who said that; "the actual structure and materials used to construct the building should be visible", for this reason, the elements of the structure and of the old factory where left to be seen.

Our thousand years old Olive trees, which represent happiness and gayness also serve as a means of invoking the past; the water that flows down the fountain into our lake, suggest a connection with the sea and our Discovery era; the vast windows leave an open sky, allowing the stars which once upon a time guided our glorious conquerors to foreign lands and now guide us.

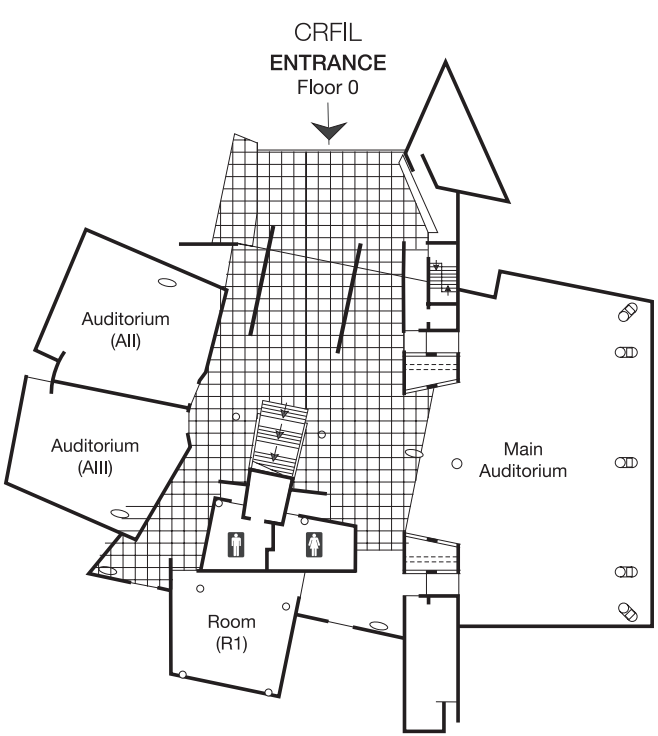
Furniture created by Frank Lloyd Wright inspires an industrial-chique atmosphere, with a choreography of hundreds of candles and warm lighting which transform the immense room into an intimate and welcoming atmosphere, listening to the Jazz & Blues band playing eternal Jazz Fusion themes.

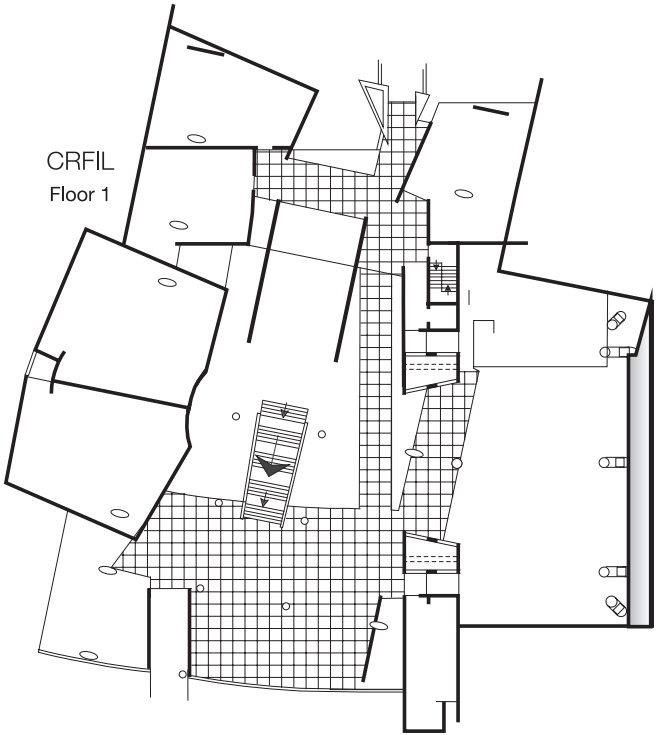
When referring to a restaurante, Kais could never be a relique if the gastronomy we have to serve would not be of an inequitable standard, well as the rich service we provide. Thus our belief in high quality experienced professionals, who aim to offer you the best of the small pleasures in life.

Conference Floorplan

PT Meeting Center

R. do Bojador 47 | Parque das Nações | 1990-254 LISBOA | Portugal





Plenary Lectures

MILD Combustion: from ignidiffusion to temperature tailored reactors

M. de Joannon
Istituto di Ricerche sulla Combustine - CNR, Napoli, Italy
dejoannon@irc.cnr.it

The challenge of modelling aeronautical combustion chambers

Ruud Eggels, Max Staufer, Thomas Doerr
Rolls-Royce Deutschland, Eschenweg 11, 15827 Blankenfelde-Mahlow
ruud.eggels@rolls-royce.com

Recent advances in soot nucleation understanding

Pascale Desgroux
Univ. Lille, CNRS, UMR 8522 - PC2A, F-59000 Lille, France
pascale.desgroux@univ-lille.fr

Laser-based flame structure visualization for quantitative interpretation of combustion in small scale turbulent flows

Zhongshan Li
Division of Combustion Physics, Lund University, P.O. Box 118, S221 00 Lund, Sweden
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Oxidation chemistry of oxygenated molecules

Z. Serinyel[1,2], G. Dayma[1,2], P. Dagaut[2]
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Poster Session 1

Monday | April 15th, 2019 | 10:30-12:30

S1_AII_01 **Exploring biofuel low-temperature chemistry with a hybrid reactive molecular-dynamics / quantum-chemistry scheme** *L. Krep, L. C. Kröger, W. A. Kopp, F. Schmalz, K. Leonhard*	S1_AII_02 **Detailed chemical modeling of biomass combustion in domestic heating appliances in order to reduce their polluting emissions** *Amal Dhahak, Roda Bounaceur, Olivier Herbinet, Céline le Dreff-Lorimier, F. Battin-Leclerc*	S1_AII_03 **Design and validation of single pulse shock tube for combustion chemistry investigations** *Shashank S. Nagaraja, Jinhu Liang, Henry J. Curran*	S1_AII_04 **The thermal degradation of nitro and nitrate compounds: a study of nitromethane and isopropyl nitrate pyrolysis** *N. Vin, F. Battin-Leclerc, O. Herbinet*	S1_AII_05 **Temperature and pressure dependence of the C-O bond fission reactions of dimethoxymethane** *Leonie Golka, Dennis Gratzfeld, Isabelle Weber, Matthias Olzmann*
S1_AII_06 **Byproduct formation in the thermolysis and hydrolysis of urea** *D. Gratzfeld, M. Olzmann*	S1_AII_07 **Low-temperature combustion of methylbutene isomers under engine-relevant conditions** *H. Song, R. Dauphin, G. Vanhove*	S1_AII_08 **Pyrolysis kinetics of n-propylcyclohexane and isopropylcyclohexane at various pressures** *Qianpeng Wang, Jiuzhong Yang, Juan Wang*	S1_AII_09 **Study of the oxidation of the butanol isomers in a plug flow reactor** *D. Peza, R. Pernía, E. Roya, L. López, Á. Millera, R. Bilbao, M.U. Alzueta*	S1_AII_10 **Thermochemical study for species and reactions occurring in the S-N-O system** *Nadia Sebbar, Joseph W. Bozzelli, Henning Bockhorn, Dimosthenis Trimis*
S1_AII_11 **Pyrene + O_2: primary reactions, reaction pathways, and influence of functional groups** *Nadia Sebbar, Henning Bockhorn, Dimosthenis Trimis*	S1_AII_12 **The impacts of iso-butanol blending on the low temperature autoignition behaviour gasoline and its surrogate** *C. A. Michelbach, A. S. Tomlin*	S1_AII_13 **Direct measurement of high-temperature rate constants and branching ratios on the pyrolysis of diethyl ether behind reflected shock waves** *P. Sela, S. Peukert, Y. Sakai, J. Herzler, M. Fikri, C. Schulz*	S1_AII_14 **Considerations in mechanism reduction applied to alcohol fuels** *C. Pichler, E.J.K. Nilsson*	S1_AII_15 **An experimental and modelling study of the oxidation of cyclopentanol at high pressures** *Maxime Carbonnier, Guillaume Dayma, Zeynep Serinyel, Alan Kéromnès, Benoîte Lefort, Luis Le Moyne, Philippe Dagaut*
S1_AII_16 **Study of the oxidation of ammonia as an alternative to carbon-based fuels** *M. Abián, A. de Goñi, B. Muñoz, A. Millera, R. Bilbao, M.U. Alzueta*	S1_AII_17 **Experimental and modeling study of the oxidation of benzaldehyde** *S. Namysl, L. Pratali, M. Pelucchi, O. Herbinet, A. Stagni, T. Faravelli, F. Battin-Leclerc*	S1_AII_18 **Experimental analysis and 1D modelling of counterflow ammonia-methane flames** *S. Colson, Y. Hirano, A. Hayakawa, T. Kudo, H. Kobayashi, C. Galizzi, D. Escudié*	S1_AII_19 **Towards a better understanding of the combustion of oxygenated aromatic hydrocarbons. Comparing benzene, toluene, phenol and anisole with ignition delay times in a rapid compression machine** *R. D. Büttgen, L. Pratali Maffei, M. Pelucchi, T. Faravelli, A. Frassoldati, K. A. Heufer*	S1_AII_20 **Global quasi-linearization (GQL) for methane-air MILD combustion** *C. Yu, V. Bykov, U. Maas*
S1_AII_21 **Effects of radiation on premixed spherical flame propagation** *Z. Chen*	S1_AII_22 **Stability of buoyant laminar diffusion syngas flame: impacts of H_2: CO** *T. Piemsinlapakunchon, M. C. Paul*	S1_AII_23 **Low dimensional chemistry manifolds applied to premixed methane/air flames under atmospheric conditions** *P. Breda, M. Hansinger, M. Pfitzner*	S1_AII_24 **Effect of progress variable definition on the mass burning rate of premixed laminar flames in flamelet generated manifold methods** *H. Gupta, O.J. Teerling, L.P.H. de Goey, J.A. van Oijen*	S1_AII_25 **The effect of droplets on laminar propagation speed of an acetone-methane flame** *L. Fan, B. Tian, C. T. Chong, D. McGrath, S. Hochgreb*
S1_AII_26 **Experimental study of premixed ozone-seeded DME/O_2 cool flames on a stagnation plate burner** *N. Mokrani, S. Batut, L. Pillier, C. Hecquet, G. Vanhove*	S1_AII_27 **1064 nm laser-induced grating spectroscopy (LIGS) measurements in flames at pressure** *Francesca De Domenico, Thibault F. Guiberti, Simone Hochgreb, William L. Roberts, Gaetano Magnotti*	S1_AII_28 **An image processing routine to estimate the laminar flame speed of H_2-enriched biogas/ air flames** *F. M. Quintino, N. Rocha, E. C. Fernandes*	S1_AII_29 **Influence of DC electric fields on laminar pre-mixed propane/air flames** *M. Pinto, S.I.G. Dias, E.C. Fernandes*	S1_AII_30 **Data consistency of the burning velocity measurements using the heat flux method: syngas flames** *M. Lubrano Lavadera, A. A. Konnov*

Poster Session 1

Monday | April 15th, 2019 | 10:30-12:30

S1_AII_31 **Propane/air flame impingement on a cylindrical surface: experimental investigation of heat transfer** *P. O. Oketch, M. Gonchikzhapov, U. Bergmann, B. Atakan*	S1_AII_32 **Study of laminar burning velocities and NO formation for methanol-air flames** *C. Brackmann, T. Methling, M. Lubrano Lavadera, G. Capriolo, A.A. Konnov*	S1_AII_33 **The H_2, H preferential diffusion effect on extinction behavior in SNG/air premixed symmetric flames** *Yeon Se Kang, Kee Man Lee*	S1_AII_34 **Laminar burning velocities of hydrocarbons with ethanol addition** *S.S. Matveev, D.V. Idrisov, S.G. Matveev, A.A. Konnov*	S1_AIII_35 **Nature and origin of O-PAH compounds in biomass combustion emissions and their destruction** *K.D Bartle, A.R. Lea-Langton, J.M. Jones, E.J.S. Mitchell, A. Williams*
S1_AIII_36 **Experimental investigation and comparison of particle-laden flows in a gas-assisted oxy-coal combustion chamber for reacting and non-reacting conditions** *H. Schneider, L.G. Becker, S. Pielsticker, B. Böhm, R. Kneer, A. Dreizler*	S1_AIII_37 **Char emissivity measurements for coal chars** *M. Schiemann, P. Graeser, L. Pörtner*	S1_AIII_38 **Demonstration of laser-induced incandescence in single coal particle enveloping flames** *Nikita Vorobiev, Stefan Kruse, Heinz Pitsch, Martin Schiemann*	S1_AIII_39 **Heat transfer modeling using waste rubber as starting material in fluidized bed chamber** *Thuan Duc Mai, András Arnold Kállay*	S1_AIII_40 **Applicability investigation of a validated simulation method developed for a large scale grate incinerator for the case of a small scale pellet boiler** *T. Zadravec, B. Rajh, F. Kokalj, N. Samec*
S1_AIII_41 **Experimental two stage gasification of Hungarian brown coal for increased H_2 and CO ratio in the produced synthesis gas** *A. Kállay, V. Vivien, G. Nagy*	S1_AIII_42 **Gasification of miscanthus x giganteus grown on heavy metal contaminated land** *A. Samson, J. Gonzalez-Rodriguez, M. Pogrzeba, M. Mos*	S1_AIII_43 **Pyrolysis of plastic wastes for the purpose of liquid fuel production** *Zs. Dobó, Zs. Jakab, T. Koós*	S1_AIII_44 **Laboratory scale pyrolysis of organic fraction and RDF from municipal solid waste** *E. Sebe, G. Nagy, A.A. Kállay*	S1_AIII_45 **Development of a vision-based monitoring system for optimizing industrial scale moving step grate biomass combustion** *A. Garami, A. Palotas, P. Toth*
S1_AIII_46 **Sewage sludge combustion in the rotary kiln** *I. Hudak, P. Skryja, J. Bojanovsky, V. Brummer*	S1_AIII_47 **Detailed analysis of single biomass particle combustion by shadowgraphy** *Hassan Mohanna, Jean-Michel Commandre, Bruno Piriou, Gilles Vaitilingom, Benoit Taupin, David Honore*	S1_AIII_48 **The energy aspects of biogas production from sheep manure** *Gábor Nagy, Alexandra Takács, András Arnold Kállay*	S1_AIII_49 **Investigation of agriculture biomass for pyrolysis and gasification** *Agata Mlonka-Mędrala, Małgorzata Sieradzka, Panagiotis Evangelopoulos, Weihong Yang, Aneta Magdziarz*	S1_AIII_50 **Physical and chemical characteristics of ash deposits in a utility boiler firing an Indonesian lignite** *Sigit Abdurrakhman, Sui Boon Liaw, Hongwei Wu*
S1_AIII_51 **Biomass for energy: Excess air ratio effects on combustion characteristics of pulverized olive cake** *A. Elorf, B. Sarh, M. Asbik, T. Boushaki, I. Gokalp*	S1_AIII_52 **Potassium release from single burning pulverized biomass char particle** *W.B. Weng, M. Costa, Z.S. Li*	S1_AIII_53 **Study on the high load potential under natural gas/diesel dual-fuel combustion in a heavy-duty engine** *Jeongwoo Lee, Sunyoup Lee, Seokhwan Lee, Changgi Kim*	S1_AIII_54 **An analysis on the combustion and performance characteristics of a hydrogen spark ignition engine with boosting condition** *Y. Kim, J. Lee, C. Park, Y. Choi*	S1_AIII_55 **1-methylnaphthalene LIF for the investigation of the mixture formation at diesel engine conditions and kHz repetition rates** *Ulrich Retzer, Stefan Will, Lars Zigan*
S1_AIII_56 **Highly resolved near-wall flame and flow measurements in an optically accessible SI engine using SO_2-PLIF and PTV** *Marius Schmidt, Carl-Philipp Ding, Brian Peterson, Andreas Dreizler, Benjamin Böhm*	S1_AIII_57 **Coupled experimental and numerical investigation of reactive spray processes in internal combustion engine** *M. Vujanović, F. Jurić, Z. Petranović, T. Katrašnik, R. Vihar, R. Tatschl*	S1_AIII_58 **Experimental and modeling study of 2-Ethylhexyl Nitrate promoting effect on a low octane gasoline surrogate** *M.D. Le, M. Matrat, A. Ben Amara, F. Foucher, B. Moreau, Y. Yu, PA. Glaude*	S1_AIII_59 **A modeling study of a partial oxidation polygeneration process of fuel-rich ethanol/ozone mixtures in an HCCI engine** *D. Schröder, B. Atakan*	S1_AIII_60 **CFD model of a spark-ignition engine fueled with several oxygenated compounds** *S. Domínguez-Cardozo, F. Bustamante-Londoño, R. Agudelo-Santamaría*

Poster Session 1

Monday | April 15th, 2019 | 10:30-12:30

S1_AIII_61 **Experimental study on the knock phenomena in the individual cycles of direct-injected spark ignition engine with various stroke-to-bore ratios** *sechul Oh, Seokwon Cho, Woojae Shin, Kyoungdoug Min, Han Ho Song*	S1_AIII_62 **Numerical simulation of the prechamber processes in a lean-burn gas engine** *h. D. Nguyen, M. Neuenschwander, F. Dinkelacker*	S1_AIII_63 **Time-resolved chemiluminescence spectroscopy of diesel and alternative fuel flames at engine relevant ambient conditions** *A. Peter, S. Riess, L. Weiss, M. Wensing*	S1_AIII_64 **A power-to-gas process in a piston engine: exergy storage through pyrolysis of methane and ethane** *C. Rudolph, B. Atakan*	S1_AIII_65 **Investigation of the chemical stability of the laser-induced fluorescence tracer 1-methylnaphthalene at IC engine relevant conditions by supercontinuum absorption spectroscopy** *P. Fendt, U. Retzer, H. Ulrich, S. Will, L. Zigan*
S1_AIII_66 **Comparison of fuel additives for syngas production from fuel-rich methane HCCI combustion** *K. Banke, S.A. Kaiser*	S1_AIII_67 **Exploration of the high load limits in dual-fuel combustion operation** *Mladen Božić, Ante Vučetić, Mario Sremec, Darko Kozarac*	S1_AIII_68 **Operating parameters of the biogas-diesel dual-fuel engine** *Ante Vučetić, Mladen Božić, Mario Sremec, Darko Kozarac*	S1_AIII_69 **Active pre-chamber ignition systems: an enabler for new ICE combustion concepts** *T. Russwurm, M. Wensing*	S1_AIII_70 **Ignition characteristics of plasma reformed n-heptane in a homogeneous combustion compression ignition engine: a modeling study** *Galia Faingold, Joseph K. Lefkowitz*
S1_AIII_71 **Ignition delay times of diluted mixtures of ammonia/methane at elevated pressures** *C.F. Ramos, B. Shu, R.X. Fernandes, M. Costa*	S1_R1_72 **Study of a gasoline surrogate blended with pentanol isomers: sooting tendency and flame structure analysis** *R. Jalain, J. Bonnety, G. Legros, P. Jacobs, A. Matynia*	S1_R1_73 **Spray and particle characterization of a spray flame synthesis process using wide-angle light scattering (WALS)** *B. Münsterjohann, S. Aßmann, F.J.T. Huber, S. Will*	S1_R1_74 **Measurement of the sooting propensity of aviation fuel mixtures** *S. Richter, T. Kathrotia, C. Naumann, S. Scheuermann, U. Riedel*	S1_R1_75 **Raman spectroscopy of soot sampled from high-pressure diffusion flames** *M. Commodo, A.E. Karataş, G. De Falco, P. Minutolo, A. D'Anna, Ö.L. Gülder*
S1_R1_76 **Production and characterization of superhydrophilic TiO_2 nanoparticle coatings via flame aerosol synthesis and thermophoretic deposition** *G. De Falco, M. Commodo, M. F. De Santis, P. Del Gaudio, A. Ottieri, P. Minutolo, A. D'Anna*	S1_R1_77 **Numerical modelling of detailed soot radiative properties of a laminar coflow sooting flame** *K. Torres-Monclard, R. Vicquelin, O. Gicquel*	S1_R1_78 **Modelling soot particle inception and soot particle probe sampling** *H. Mätzing, D. Stapf*	S1_R1_79 **Formation of soot precursors in benzene-laden producer gas combustion: experimental and computational study** *Ana M. Valencia-López, F. Bustamante, B. Stelzner, A. Loukou*	S1_R1_80 **Pathways of soot precursors formation in combustion of producer gas in presence of benzene** *Ana M. Valencia-López, F. Bustamante, M. Frenklach*
S1_R1_81 **Characterization of soot volume fraction and particle size inside premixed kerosene flames** *T. von Langenthal, A. Loukou, B. Stelzner, N. Zarzalis*	S1_R1_82 **Experimental investigation of hydrogen impact on atmospheric sooting premixed methane flames** *H.Q. Do, X. Mercier, L-S. Tran, L. Gasnot, A. El Bakali*	S1_R1_83 **Particle size distribution measurements in ethylene/toluene premixed flames** *Mariano Sirignano, Carmela Russo, Anna Ciajolo, Andrea D'Anna*	S1_R1_84 **Soot measurements over a series of laminar pool flames of biofuels, methyl esters and blends with diesel** *B. Tian, C.T. Chong, L. Fan, S. Ni, S. Hochgreb*	S1_R1_85 **Quantification of the evolution of mean gaseous species concentrations across the sooting limit in turbulent premixed opposed jet flames** *H. Shariatmadar, F. Hampp, D. Greenblatt, R. P. Lindstedt*
S1_R1_86 **Numerical prediction of soot particle size distribution in a turbulent flame using the LES-PBE-PDF method** *B. Sun, S. Rigopoulos*	S1_R1_87 **A reduced virtual chemistry model for soot precursors prediction in hydrocarbon-air flames** *H. Maldonado Colmán, A. Cuoci, N. Darabiha, B. Fiorina*	S1_R1_88 **Influence of surrogate biofuels admixture on soot characteristics in isooctane counterflow non-premixed flames** *P. Vlavakis, A. Loukou, D. Trimis*	S1_R1_89 **Impact of spray nozzle k-factor on spray characteristics, flame propagation, and soot formation under engine-relevant conditions** *S. Kruse, J. Beeckmann, Y. Heynen, W. Willems, G. Hammes, U. Reuter, H. Pitsch*	S1_R1_90 **Soot particle nanostructure from HRTEM images and reactivity towards oxidation** *F. Hagen, F. Hardock, H. Bockhorn, A. Loukou, R. Suntz, D. Trimis*

Poster Session 2

Monday | April 15th, 2019 | 15:30-17:30

S2_AII_01 **Simulation of flameless combustion in Delft lab-scale furnace using EDC model** *N. Romero, H. Bao, X. Huang, K. Martin, D.J.E.M. Roekaerts*	S2_AII_02 **Reaction-Diffusion Manifolds (REDIMs) simplified chemistry for the simulation of laminar and turbulent CH_4 diffusion flame** *C. Yu, F. Minuzzi, U. Maas*	S2_AII_03 **Application of the shadow-position mixing model to large eddy simulation with the Eulerian subgrid probability density function approach** *O.V. Parry, E.S. Richardson*	S2_AII_04 **The behavior of flame with the increase of turbulence intensity on low swirl combustior** *Minseok Han, Keeman Lee*	S2_AII_05 **LES modelling of nanoparticle synthesis in the SpraySyn burner** *E. Borukhovich, I. Wlokas, A.M. Kempf*
S2_AII_06 **Comparison of LES combustion models for turbulent premixed flames at atmospheric pressures** *A. Lampmann, M. Hansinger, M. Pfitzner*	S2_AII_07 **Eulerian stochastic fields method and model free finite rate chemistry applied to Sydney partially premixed flame** *Maximilian Hansinger, Julian Zips, Michael Pfitzner*	S2_AII_08 **Machine learning for sub-grid scale turbulent combustion modeling** *A. Seltz, P. Domingo, L. Vervisch*	S2_AII_09 **Turbulent premixed flames in a hele-shaw cell** *B. Radisson, J. Quinard, B. Denet, C. Almarcha*	S2_AII_10 **Effects of fuel composition on the minimum ignition energy and its transition for homogeneous biogas-air mixtures** *V. Papapostolou, C. Turquand d'Auzay, S.F. Ahmed, N. Chakraborty*
S2_AII_11 **Visualization of turbulent inverse diffusion flames at elevated pressure using OH-PLIF and OH* chemiluminescence imaging** *Xin Liu, Arman Ahamed Subash, Qingshuang Fan, Christian Brackmann, Johan Evers, Marcus Aldén, Zhongshan Li*	S2_AII_12 **Turbulent burning characteristics of hydrogen/air premixed flames in different combustion regimes** *Wansik Song, Efstathios-Al. Tingas, Francisco E. Hernández Pérez, Hong G. Im*	S2_AII_13 **Flame front detection in combustion imagery based on ridges in two and three dimensions** *R. Schießl, V. Bykov*	S2_AII_14 **Study of an opposed jet turbulent flame using the sub-grid PDF method** *Y. Gong, W.P. Jones, A.J. Marquis*	S2_AII_15 **Near-wall behaviour of turbulence in flame-wall interaction of premixed turbulent combustion in boundary layers** *Ilias Konstantinou, Umair Ahmed, Markus Klein, Nilanjan Chakraborty*
S2_AII_16 **Studies on the lean flammability limits of hydrogen/methane/air turbulent flames in a combustion bomb** *Chunwei Wu, Robert Schießl*	S2_AII_17 **Effect of equivalence ratio on turbulent premixed stratified methane-air flames** *P. Petersson, J. Rosell, A.A. Subash*	S2_AII_18 **Combined PIV/SO_2-PLIF experiments for multi-mode combustion** *D. Butz, S. Walther, A. Breicher, S. Popp, C. Hasse, A. Dreizler, D. Geyer*	S2_AII_19 **Statistical dependence of mixture fraction and progress variable in partially-premixed combustion** *Edward S. Richardson, B.S. Soriano, J.H. Chen*	S2_AII_20 **Assessing heat release and chemical mode manifold in multi-regime combustion under experimental conditions** *S. Hartl, S. Popp, D. Butz, A. Dreizler, D. Geyer, R. Barlow, C. Hasse*
S2_AII_21 **Artificial neural network prediction of emissions from primary reference fuel combustion in jet stirred reactor** *Bingjie Chen, Kiran K. Yalamanchi, Yaozong Duan, S. Mani Sarathy*	S2_AII_22 **CO-concentration and temperature measurements of fuel-rich CH_4/O_2 mixtures doped with diethyl ether behind reflected shock waves** *Dong He, Damien Nativel, Jürgen Herzler, Mustapha Fikri, Christof Schulz*	S2_AII_23 **Experimental study of the autoignition of isooctane/anisole mixtures at low to intermediate temperatures** *C. Mergulhão, H. Song, G. Vanhove*	S2_AII_24 **Experimental speciation study during oxidation of n-butane in a rapid compression machine** *A. Ramalingam, Y. Fenard, K.A. Heufer*	S2_AII_25 **High pressure ignition delay time measurements and consistent kinetic modeling of C4 - C7 ethyl esters** *P. Morsch, K.A. Heufer*
S2_AII_26 **A chemical functionality approach towards the formulation of a high-fidelity surrogate fuel for FACE gasoline F** *Andrew D. Ure, Stephen Dooley, Dongil Kang, S. Scott Goldsborough*	S2_AII_27 **Experimental and modeling study of the pyrolysis and combustion of di-tert-butyl peroxide** *m. Preußker, K. A. Heufer*	S2_AII_28 **Influence of CO_2 dilution on shock tube ignition delay times of dimethyl ether/air mixtures at high pressures** *Mike Rekus, Lisa Zander, Johann Vinkeloe, Neda Djordjevic*	S2_AII_29 **Multi-dimensional transport phenomena of flame-wall-interactions and the REDIM method** *C. Strassacker, V. Bykov, S. Ganter, J. Janicka, U. Maas*	S2_AII_30 **The role of chemical structure in the thermal decomposition of xylan** *Andrew D. Ure, Karla Dussan, Andreas O'Brien, Stephen Dooley*

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S2_AII_31 **Isomerisation and decomposition of alkylperoxy and hydroperoxy alkylperoxy radicals of three heptane isomers** *Manik Kumer Ghosh, Andrew Ure, Stephen Dooley*	S2_AII_32 **Autoignition properties of liquefied natural gas (LNG): an experimental and modeling study** *Sonal. K. Vallabhui, Bo Shu, Kai Moshammer, Ravi X. Fernandes*	S2_AII_33 **An experimental and theoretical comparison of the novel e-fuel class oxymethylene ethers** *S. Jacobs, K.A. Heufer*	S2_AII_34 **Reaction kinetics studies of unsaturated methyl ester: methyl crotonate** *Sonal. K. Vallabhuni, X. He, Bo Shu, Kai Moshammer, Ravi X. Fernandes*	S2_AIII_35 **A new camera-based flame stability measure for non-oscillating and oscillating combustion** *J. Matthes, P. Waibel, M. Vogelbacher, H.-J. Gehrmann, H. B. Keller*
S2_AIII_36 **Image-based analysis of flames in industrial afterburner chambers using geometric constraints** *P. Waibel, J. Matthes, M. Vogelbacher, L. Gröll, H.B. Keller*	S2_AIII_37 **Application of image-based process parameters for analyzing multi-fuel burners** *M. Vogelbacher, P. Waibel, J. Matthes, H. B. Keller*	S2_AIII_38 **In situ LIF and ex situ CRDS applied to NO measurement in flames: probe perturbation and absolute quantification** *N. Lamoureux, P. Desgroux*	S2_AIII_39 **MZI measurements on an oxidant-diluted N_2O/CH_4 inverse diffusion flame** *Chih-Ting Chen, Sareddy Kullai Reddy, Yueh-Heng Li*	S2_AIII_40 **Absolute SiO concentration imaging in low-pressure nanoparticle-synthesis flames via laser-induced fluorescence** *Robin S.M. Chrystie, Felix L. Ebertz, Thomas Dreier, Christof Schulz*
S2_AIII_41 **Investigation of the time-resolved luminescence spectra of thermographic phosphors for combustion applications** *E. Hertle, J. Ballmann, S. Will, L. Zigan*	S2_AIII_42 **High-speed OH* imaging in a twin piston rapid compression machine** *M. Figueroa-Labastida, G. Issayev, A. Farooq*	S2_AIII_43 **The application of Raman crystals as narrowband light sources for shifted vibrational CARS thermometry in sooting flames** *C. Meißner, J.W. Tröger, F. Beyrau, D.N. Kozlov, T. Seeger*	S2_AIII_44 **Automatic defect detection in a model combustion chamber using support vector machine** *henrik von der Haar, Friedrich Dinkelacker*	S2_AIII_45 **Femtosecond two-photon laser-induced fluorescence imaging of atomic hydrogen in a laminar methane/air flame stimulated by nanosecond repetitively pulsed discharges** *Davide Del Cont-Bernard, Maria Ruchkina, Pengji Ding, Joakim Bood, Andreas Ehn, Deanna A. Lacoste*
S2_AIII_46 **Towards non-intrusive diagnostics of ethanol and hydrocarbons formed as intermediates in its flames by Raman scattering** *K. Dieter, J. Trabold, K. Koschnick, A. Dreizler, D. Geyer*	S2_AIII_47 **Investigation of flame propagation enhancement by a ultrashort nanosecond discharge pulse using the advanced laser-based diagnostics** *C. Kong, Y. Bao, T. Hurtig, M. Aldén, A. Ehn*	S2_AIII_48 **Phantom studies on a new evolutionary reconstruction technique applied to 3D scalar fields in the gas-phase** *A. Unterberger, A. Kempf, K. Mohri*	S2_AIII_49 **Alternative soot detection strategies for application in aero-engine test-beds: assessment of the performance and uncertainties of time-integrated LII** *R. Roy, C. Blount, G. Ramesh, K. Ozanyan, P. Wright, V. Archilla, I.S. Burns*	S2_AIII_50 **A novel approach to high-speed 1D Raman-scattering for combustion dynamics** *G. Magnotti, Y. Krishna, C. Yang, H. Tang*
S2_AIII_51 **Characterization of UV endoscopic imaging systems for combustion applications** *M.A. Shahbaz, S.A. Kaiser, M. Schütte, T. Berg*	S2_AIII_52 **Rayleigh temperature measurements in a non-premixed, swirl stabilized burner with iCCD and sCMOS camera systems** *J. Brunzendorf, R. Sadanandan, M. Paul, D. Markus*	S2_AIII_53 **Lagrangian approach to GCH_4/LOX axisymmetric spray combustion of movable pintle injector** *R. Kanmaniraja, Keonwoong Lee, Jaye Koo*	S2_AIII_54 **Analysis of LIF and Mie signals from single micrometric droplets for instantaneous droplet sizing in gasoline sprays** *Matthias Koegl, Kevin Baderschneider, Christopher Mull, Bernhard Hofbeck, Stefan Will, Lars Zigan*	S2_AIII_55 **VOF method: numerical analysis of single droplets impinging upon liquid films** *Daniel Vasconcelos, Daniela Ribeiro, André Silva, Jorge Barata*
S2_AIII_56 **Experimental study of a droplet impact on oblique dry surface** *Inês Ferrão, Daniela Ribeiro, Jorge Barata, André Silva*	S2_AIII_57 **Numerical simulation of sulfur combustors with high-power-density** *Feichi Zhang, Hosein Heidarifatasmi, Thorsten Zirwes, Michal Fedoryk, Stefan Harth, Nadia Sebbar, Peter Habisreuther, Dimosthenis Trimis, Henning Bockhorn*	S2_AIII_58 **SpraySyn – standard burner for the collaborative investigation of spray-flame synthesis of nanoparticles: droplet velocity and size of the non-reactive ethanol spray** *F. Schneider, T. Dreier, C. Schulz*	S2_AIII_59 **Liquid fuel MILD combustion with two stage combustion structure in a closed combustion chamber** *Chun Loon Cha, Ho Yeon Lee, Sang Soon Hwang*	S2_AIII_60 **Numerical modeling of the secondary droplet break-up in spray flows** *C. Sula, M. V. Papalexandris, H. Groshans*

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S2_AIII_61 **Analysis of multiphase MMC coupling using DNS of a reacting double shear layer** *M. Sontheimer, A. Kronenburg, O. T. Stein*	S2_AIII_62 **Quantifying the effect of the turbulence and break up modelling for spray simulations through a dimensionless number analysis** *F. Gerbino, R. Morgan, P. Atkins, K. Vogiatzaki*	S2_AIII_63 **Investigation of the sulfur dioxide absorption in water droplets** *T. Bešenić, J. Baleta, M. Vujanović, K. Pachler, R. Tatcshl*	S2_AIII_64 **A direct numerical simulation analysis of turbulent V-flames propagating into droplet-laden mixtures with an overall equivalence ratio of unity** *G. Ozel Erol, J. Hasslberger, M. Klein, N. Chakraborty*	S2_AIII_65 **The effect of atomizing media on the flame characteristics** *J. Bojanovsky, I. Hudak, P. Skryja*
S2_AIII_66 **Droplets autoignition simulations of ethanol mixtures with a reduced kinetic mechanism** *A. Millán-Merino, E. Fernández-Tarrazo, M. Sánchez-Sanz, F.A. Williams*	S2_AIII_67 **Uncertainty of droplet evaporation measurements and its effect on model validation** *D. Csemány, V. Józsa*	S2_AIII_68 **Temporal and spectral correlation of acoustic and chemiluminescent signal of a liquid-fueled turbulent swirl burner** *Gy. Hidegh, V. Józsa*	S2_AIII_69 **Determination of the minimal acoustic signal length for fast-acting control of a liquid-fueled turbulent swirl burner by Wavelet and Fourier transform** *G. I. Novotni, V. Józsa*	S2_AIII_70 **High-fidelity simulations and experiments of oxymethylene ether spray ignition** *D. Goeb, M. Bode, M. Davidovic, L. Cai, T. Ottenwälder, S. Jacobs, S. Pischinger, K. A. Heufer, H. Pitsch*
S2_R1_71 **The influence of film cooling flow over turbine blades from different shaped holes** *D. Cerinski, J. Baleta, J. Wang, X. Wang*	S2_R1_72 **How far can we go? Stability limit assessment of micro gas turbine combustion in diluted condition using LES.** *A. Pappa, M. Cordier, P. Bénard, L. Bricteux, W. De Paepe*	S2_R1_73 **Detection of high-frequency thermoacoustic combustion oscillations in a model rocket combustor** *S. Shima, T. Hashimoto, H. Shibuya, H. Gotoda, Y. Ohmichi, S. Matsuyama*	S2_R1_74 **Early detection and prevention of blowout in a laboratory-scale gas-turbine model combustor using complex networks** *S. Masuda, T. Kobayashi, H. Gotoda*	S2_R1_75 **Quantifying acoustic damping in a multi-injector annular combustor** *G. Vignat, D. Durox, A. Renaud, S. Candel*
S2_R1_76 **Emission estimation for lean premixed methane - air flame at high pressure** *A. Vashishtha, S. Yousefian, S. Jella, G. Goldin, K. Frojd, G. Bourque, R.F.D. Monaghan*	S2_R1_77 **LES-pdf of combustion dynamics in a partially premixed swirl combustor** *D. Fredrich, W.P. Jones, A.J. Marquis*	S2_R1_78 **A tabulated chemistry method for the LES of diluted, non-adiabatic, premixed flames including auto ignition** *P. Gruhlke, C. Beck, B. Fiorina, A. M. Kempf*	S2_R1_79 **Suppression of instabilities of swirled premixed flames with minimal secondary hydrogen injection** *G. Oztarlik, L. Selle, T. Poinsot, T. Schuller*	S2_R1_80 **Large-eddy simulation of flame dynamics during the ignition of a swirling injector unit and comparison with experiments** *K. Töpperwien, T. Lancien, S. Puggelli, G. Vignat, K. Prieur, D. Durox, S. Candel, R. Vicquelin*
S2_R1_81 **Effects of mixture stratification on thermo-acoustic instabilities in a dual-swirl gas turbine model combustor** *C.M. Arndt, Y. Gao, W. Meier*	S2_R1_82 **Systematic CFD-CRN study of exit NO_x emission in a methane/air diffusion flame** *S. Yousefian, G. Bourque, R. F.D. Monaghan*	S2_R1_83 **Analysis of ignition processes at combustors for aero engines at high altitude conditions** *A. Martinos, L. Palanti, S. Harth, A. Andreini, N. Zarzalis, D. Trimis, I. Vitale*	S2_R1_84 **The effects of compressibility on the response of a flame to acoustic forcing** *N. Treleaven, A. Garmory, G. Page*	S2_R1_85 **Prediction of combustion instability by using a feedback transfer function approach in a model chamber** *Yuangang Wang, Chae Hoon Sohn*
S2_R1_86 **Simultaneous measurement of 2D mixture fraction and flame structure in a non-premixed, swirl stabilized burner** *R. Sadanandan, J. Brunzendorf, M. Paul, H. Grosshans, D. Markus*	S2_R1_87 **Assessing emission characteristics of multiphase fuel combustion under gas turbine conditions** *Ogbonnaya Agwu, Agustin Valera-Medina, Cheng Tung Chong*	S2_R1_88 **Assessment of subgrid-scale turbulence-radiation interaction on the filtered mean radiative emission in large-scale pool fire simulations** *G.C. Fraga, A.P. Petry, P.J. Coelho, F.H.R. França*	S2_R1_89 **Experimental and numerical study on the interaction between sprinkler water spray, fire plume and smoke layer** *I. Dinkov, M. Vetter, D. Schelb, D. Trimis*	S2_R1_90 **Laboratory investigation of the ignition of wood structural materials under the influence of spot fires** *D.P. Kasymov, M.V. Agafontsev, V.V. Perminov, A.Yu. Chechekov, V.A. Tarakanova, P.S. Martynov*

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S3_AII_01 **Activation effect of diethyl ether on the partial oxidation of methane** *D. Kaczmarek, S. Shaqiri, B. Atakan, T. Kasper*	S3_AII_02 **Estimation of sticking coefficients using mobile and immobile transition states for catalytic platinum systems** *A. -M. Tsopelakou, K. Gkagkas, R.P. Lindstedt*	S3_AII_03 **Evaluation of polycyclic aromatic hydrocarbon formation in counterflow diffusion flames** *R. Tripathi, W. Pejpichestakul, L. Cai, M. Pelucchi, T. Faravelli, H. Pitsch*	S3_AII_04 **Combustion study of a 3-components surrogate fuel** *Yue-Xi Liu, Sandra Richter, Clemens Naumann, Marina Braun-Unkhoff, Zhen-Yu Tian*	S3_AII_05 **Mechanism and kinetic study on the pyridine low-temperature oxidation under fuel-rich condition** *Ling-Nan Wu, Zhen-Yu Tian, Jun-Jie Weng, Dan Yu, Yue-Xi Liu, Dong-Xu Tian, Chuang-Chuang Cao, Jia-Biao Zou, Yan Zhang, Jiu-Zhong Yang*
S3_AII_06 **Reduction of methane-air combustion kinetic model through flux analysis and optimized with adaptive Monte Carlo optimization for chemical kinetics** *Gerry Hughes, Federico Ferliga, Stephen Dooley*	S3_AII_07 **An experimental and theoretical kinetic study of the reaction of hydroxyl radicals with 1,4-Pentadiene** *Binod Raj Giri, Tam V.-T. Mai, Dapeng Liu, Milán Szőri, Lam K. Huynh, Béla Viskolcz, Aamir Farooq*	S3_AII_08 **Combustion behaviour of ammonia blended with dimethyl ether** *Gani Issayev, Binod Raj Giri, Ayman M Elbaz, William L Roberts, Aamir Farooq*	S3_AII_09 **Exploring the combustion chemistry of a novel lignocellulose-derived biofuel: cyclopentanol** *L. Cai, L. Kröger, M. Döntgen, H. Minwegen, R. D. Büttgen, A. Ramalingam, K. Leonhard, K. Narayanaswamy, S. M. Sarathy, K. A. Heufer, H. Pitsch*	S3_AII_10 **Comparison of methane combustion mechanisms based on shock tube and RCM ignition delay time measurements** *Peng Zhang, István Gy. Zsély, Viktor Samu, Tamás Turányi*
S3_AII_11 **Comparison of detailed reaction mechanisms for nitrogen chemistry in syngas combustion systems** *András Gy. Szanthoffer, István Gy. Zsély, Tamás Turányi*	S3_AII_12 **Modelling study of ignition delay time characteristics of ultra-rich C1/C2 mixtures in a constant volume reactor at low-pressure** *S. Martinez, M. Baigmohammadi, K. Somers, H. Curran, A. Pekalski*	S3_AII_13 **An updated chemical kinetic model for the simulation of laminar burning velocities of premixed hydrogen-, methane-, and n-heptane/air flames** *R. Hesse, J. Beeckmann, H. Pitsch*	S3_AII_14 **A jet-stirred reactor study of the oxidation and pyrolysis of di-n-propyl-ether** *Maxence Lailliau, Zeynep Serinyel, Guillaume Dayma, Philippe Dagaut*	S3_AII_15 **Determination of the rate parameters of N/H/O elementary reactions based on $H_2/O_2/NO_x$ combustion experiments** *M. Kovács, T. Varga, C. Olm, Á. Busai, R. Pálvölgyi, I. Gy. Zsély, T. Turányi*
S3_AII_16 **Experimental and modelling study of the oxidation of methane doped with ammonia** *Y. Song, O. Herbinet, M. Pelucchi, A. Stagni, T. Faravelli, F. Battin-Leclerc*	S3_AII_17 **An experimental and kinetic modeling study on the reactivity of 1,3-dioxolane under engine relevant conditions** *A. Wildenberg, Y. Fenard, B. Lefort, L. Le Moyne, A. Kéromnès, K. A. Heufer*	S3_AII_18 **An experimental and modelling study of diisobutylene oxidation** *A. Nitin Lokachari, B. Kuiwen Zhang, C. William J. Pitz, D. Henry J. Curran*	S3_AII_19 **Response-surface and group-additivity methodology for estimation of thermodynamics properties of oxygen-containing organosilanes** *H. Janbazi, C. Schulz, I.Wlokas, S. Peukert*	S3_AII_20 **Global Quasi-Linearization (GQL) method for high dimensional detailed reaction mechanisms** *S. Porras, C. Yu, E. Berszany, V. Bykov, U. Maas*
S3_AII_21 **Prediction of non-premixed combustion regimes in a DI diesel engine in various operation points** *D. Denker, K. Niemietz, A. Attili, M. Korkmaz, H.Pitsch*	S3_AII_22 **Methodology for knock investigation in spark ignition engines** *O. Mghanen, M. Matrat, A. Robert, R. Dauphin, N. Chaumeix*	S3_AII_23 **Toward direct numerical simulations of a gas engine pre-chamber** *C. Chi, A. Abdelsamie, D. Thévenin*	S3_AII_24 **Development of a phenomenological blending rule for the assessment of the antiknock quality of hydrocarbon fuel mixtures** *Dinarte Santos, Irionson A. Bassani, José A. Velásquez*	S3_AII_25 **Combustion characteristics of diesel blended with sludge-derived hydrothermal liquefaction oil and its applications** *Chun-Hsien Lin, Chung-Hao Hsu, Yueh-Heng Li*
S3_AII_26 **A computationally efficient combustion progress variable (CPV) approach for engine applications** *A. Werner, C. Netzer, A. Borg, A. Matrisciano, L. Seidel, F. Mauss*	S3_AII_27 **Cycle variation analysis of the partially premixed combustion (PPC) using natural flame luminosity and planar laser-induced fluorescence imaging** *Qinglong Tang, Vallinayagam Raman, Yanzhao An, Hao Shi, Priybrat Sharma, Gaetano Magnotti, Bengt Johansson*	S3_AII_28 **Modelling of auto-ignition to premixed flame transition in a context of Dual-Fuel engine combustion** *M. Tarot, S. Jay, J-B. Michel*	S3_AII_29 **Reactivity controlled compression ignition combustion using renewable fuels** *Urban Žvar Baškovič, Rok Vihar, Samuel Rodman Oprešnik, Tomaž Katrašnik*	S3_AII_30 **Experimental investigation of the impact of advanced injection strategies on a LTC concept for a single cylinder CI engine** *M. Korkmaz, J. Beeckmann, H. Pitsch*

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S3_AIII_31 **Comparison of two velocity-pressure coupling algorithms for laminar non-premixed combustion** *Fábio Alfaia da Cunha, Juliana Petrocchi Rodrigues*	S3_AIII_32 **Effect of burner diameter and diluents on structure and stability of co-flow laminar diffusion flames of diluted methane fuel** *A. Anurag Mishra, B. Ajay Murmu, C. Pushan Sharma, D. Bisrat Yoseph, E. Mayank Kumar, F. Anjan Ray*	S3_AIII_33 **Analysis of CH_2O_xOH as marker for fuel-rich air to pure oxy-fuel flames under higher preheat temperature and elevated pressure** *M. Sentko, P. Habisreuther, G. Vourliotakis, C. Keramiotis, B. Stelzner, M. Founti, D. Trimis*	S3_AIII_34 **Numerical simulation of flames in narrow combustion chambers** *K. Bioche, G. Ribert, L. Vervisch*	S3_AIII_35 **Features of cellular flames propagating between closely spaced parallel plates** *M.M. Alexeev, O.Yu. Semenov, S.E. Yakush*
S3_AIII_36 **Investigation of NO_x emission for different laminar premixed CH_4-fuel blends stabilized on a flat-flame burner** *M. Hellmuth, S. Kruse, Y. Ren, J. Hinrichs, M. Plümke, J. Beeckmann, H. Pitsch*	S3_AIII_37 **Laminar burning velocity and extinction strain rates of $H_2/CH_4/O_2/N_2$ in flat flames** *S. Eckart, M. Baxler, C. Krasselt, H. Krause*	S3_AIII_38 **Numerical generation of multidimensional flamelet databases using an adaptive wavelet method** *S. Gemini, P. P. Gottoli, R. Malpica Galassi, T. Grenga, H. Pitsch, S. Paolucci, M. Valorani*	S3_AIII_39 **Influence of natural gas composition and hydrogen addition on fundamental flame characteristics** *S. Zitouni, D. Pugh, A. Crayford, P. Bowen*	S3_AIII_40 **A DNS study of the impact of gravity on spherically expanding premixed flames** *L. Berger, R. Hesse, K. Kleinheinz, A. Attili, J. Beeckmann, H. Pitsch*
S3_AIII_41 **Laminar premixed flames of ethanol-water-air mixtures** *L. van Treek, M. Lubrano Lavadera, L. Seidel, F. Mauss, A. A. Konnov*	S3_AIII_42 **Laminar flame speed simulations of methane-air and n-heptane-air mixtures by using an adapted mechanism** *S. Schuh, F. Winter*	S3_AIII_43 **Propagating edge flames in nonpremixed coflow jets under electric fields** *Jinwoo Son, Memdouh Belhi, Hong G. Im, Sunho Park, Jeong Park, Bok Jik Lee, Min Suk Cha*	S3_AIII_44 **Effect of diluent addition on methane/nitrous oxide inverse diffusion flame** *Chun-Han Chen, Yueh-Heng Li, Chung-Hao Hsu*	S3_AIII_45 **Determination of temperature and water-concentration in fuel-rich oxy-fuel methane flames applying TDLAS** *M. Sentko, S. Schulz, B. Stelzner, C. Anderlohr, M. Vicari, D. Trimis*
S3_AIII_46 **Experimental investigation of synthesis gas production in fuel-rich oxy-fuel methane flames** *M. Sentko, S. Schulz, B. Stelzner, C. Anderlohr, M. Vicari, D. Trimis*	S3_AIII_47 **2D and 3D numerical simulation of chemiluminescent radical concentrations during side-wall quenching of premixed methane and propane flames** *T. Zirwes, T. Häber, F. Zhang, H. Kosaka, H. Bockhorn, R. Suntz, A. Dreizler, J. Janicka*	S3_AIII_48 **Experimental analysis of lean hydrogen premixed flames propagating in a confined vertical channel** *Fernando Veiga-López, Daniel Martínez-Ruiz, Mike Kuznetsov, Eduardo Fernández-Tarrazo, Mario Sánchez-Sanz*	S3_AIII_49 **Laminar burning velocity measurements of ethanol-air and methanol-air mixtures at atmospheric and elevated pressures on a novel heat flux method setup** *M.B. Raida, G.J. Hoetmer, J.A. van Oijen, L.P.H. de Goey*	S3_AIII_50 **Flames interaction under velocity and equivalence ratio gradients** *J. M. Pires, E. C. Fernandes, A. F. Ghoniem*
S3_AIII_51 **Modeling the smoldering of a static bed of biomass with inert solids** *G. Gianfelice, A. Biasin, M. Della Zassa, P. Canu*	S3_AIII_52 **A detailed investigation on a novel combustion heat exchanger design for heating applications** *B. Yadollahi, N. Karimi, M.C. Paul*	S3_AIII_53 **Development of a porous burner for low calorific gaseous fuels offering a wide operating range** *C. Wieland, P. Weinbrecht, C. Weis, P.Habisreuhter, D. Trimis*	S3_AIII_54 **Experimental study on the application of the water tube in porous media burners** *Jaehyeon Kim, Huido Lee, Keeman Lee*	

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S4_AII_01 **The study of combustion in gas generator with a charge of solid propellant enriched by metal** *M.V. Gordin, L.S. Yanovsky, A.V. Baikov, A.F. Zholudev*	S4_AII_02 **Development of a variable thrust water breathing engine** *R. Siddharth, S. Raviteja, P. A. Ramakrishna*	S4_AII_03 **Development of cost effective high aluminum based fuel rich propellant** *Ankush Kumar Mishra, R. Siddharth, P. A. Ramakrishna*	S4_AII_04 **Development of controllable lab-scale hybrid motor thruster** *Anandu Bhadran, Velari Yogeshkumar, P. A. Ramakrishna*	S4_AII_05 **Experimental determination of ignition and combustion characteristics of two insensitive propellants** *L. Courty, P. Gillard, J.F. Lagrange, C. Boulnois*
S4_AII_06 **Thermal analysis and kinetics of biomass combustion** *I. Naydenova, E. Serafimova, T. Petrova, O. Sandov, L. Varadinova-Racheva*	S4_AII_07 **Thermal treatment of lignin rich residue from bioethanol production: preliminary study on char properties** *C.M. Grottola, P. Giudicianni, R. Ragucci*	S4_AII_08 **Hydrogen rich syngas from updraft gasification of lignocellulosic feedstock** *N. Cerone, F. Zimbardi, J. Baleta*	S4_AII_09 **The co-oxidation study of coal and corn residue as a representative of biomass with photoionization mass spectrometry** *Jun-Jie Weng, Zhen-Yu Tian, Yue-Xi Liu, Ya-Nan Zhu, Yang Pan*	S4_AII_10 **PAH distribution in pig manure pyrolysis products** *I. Adánez-Rubio, P. de Blas, M.I. Fonts, G. Gea, M.U. Alzueta*
S4_AII_11 **Innovative 3D CFD sewage sludge combustion modeling for furnace design optimization** *A. Žnidarčič, T. Katrašnik, T.Seljak*	S4_AII_12 **Multi-phase reactive systems – analysis of involved time scales** *M. Bösenhofer, E.-M. Wartha, C. Jordan, B. König, M. Harasek*	S4_AII_13 **Dust explosion characteristics of corn starch at elevated temperature and pressure and reduced oxygen concentrations** *Frederik Norman, Pim van der Graaf, Tom Segers, Jeff Griffin, Filip Verplaetsen*	S4_AII_14 **Combustion behavior of torrefied biochar with different constitutions of cellulose, hemicellulose, and lignin** *Wei-Chieh Kuo, Yueh-Heng Li, Yu-Hsiang Huang, Chao-Wei Huang*	S4_AII_15 **Effect of CH_4 injection method on combustion and gasification efficiency of pulverized coal in the tuyere part of blast furnace** *A. Murao, K. Fukada, M. Sato, H. Matsuno, Y. Saito, S. Akaotsu, Y. Matsushita, H. Aoki*
S4_AII_16 **Experimental study on reaction front propagation during biomass packed bed smouldering combustion** *Linwei Wang, Tata Sutardi, Nader Karimi, Manosh C. Paul*	S4_AII_17 **Numerical simulation of raceway zone in small-scale combustion equipment for blast furnace** *H. Umetsu, K. Tanno, S. Umemoto, K. Moriya, A. Murao, T. Sato*	S4_AII_18 **Direct numerical simulations of spontaneous ignition of biomass in turbulent, high temperature particle-laden mixtures** *M. Rabaçal, M. Costa, V. Papapostolou, C. Turquand d'Auzay, N. Chakraborty*	S4_AII_19 **Kinetic modeling of the effects of Na+ and K+ on the slow pyrolysis of hemicellulose** *A.I. Ferreiro, M. Costa, M. Rabaçal, P. Giudicianni, V. Gargiulo, M. Alfè, R. Ragucci*	S4_AII_20 **Modelling of particulate matter emissions from non-woody biomass combustion** *S. Pereira, M. Costa*
S4_AIII_21 **Influence of the cobalt oxide coated flame holder in stabilization of inverted-methane lean flames** *L.M. Marques, Pedro F. Madeira, E. C. Fernandes*	S4_AIII_22 **Feasibility of natural gas pyrolysis for production of unsaturated hydrocarbons: an RCM study** *Simon Drost, Robert Schießl, Ulrich Maas*	S4_AIII_23 **Plasma-assisted super-equilibrium radical generation and its effect on ignition** *J. Lefkowitz, S. Hammack, C. Carter, T. Ombrello*	S4_AIII_24 **Designing a cooking burner using biogas as fuel** *Murat Hac, Zafer Kahraman, Hakan Serhad Soyhan*	S4_AIII_25 **Partial methane oxidation via MILD combustion** *A. Pilipodi-Best, V. Tsionsky, I. Rahinov, S. Cheskis*
S4_AIII_26 **Experimental and numerical studies on CO_2 reforming in piston engines** *Simon Drost, Hendrik Gossler, Robert Schießl, Olaf Deutschmann, U. Maas*	S4_AIII_27 **Autothermal and steam reforming of liquid synthetic fuels** *b. Bender, R.T.E. Hermanns, B. Wildrath, D. Diarra*	S4_AIII_28 **Key modeling aspects in the simulation of a cyclonic burner operated in MILD combustion conditions through flamelet generated manifold model** *G. Ceriello, G. Sorrentino, P. Sabia, M. de Joannon, A. Cavaliere, R. Ragucci*	S4_AIII_29 **Investigation of heterogeneous kinetic combustion of propene using novel CJSR** *Achraf El Kasmi, Guan-Fu Pan, Ling-Nan Wu, Zhen-Yu Tian*	S4_AIII_30 **Abatement of toluene by non-thermal plasma coupled with Cu-Co-O thin film coated on stainless steel mesh** *Dan Yu, Zhen-Yu Tian, Muhammad Waqas, Zhi-hao Jin, Dong-Xu Tian, Achraf El Kasmi, Patrick Mountapmbeme Kouotou*

Poster Session 4

Tuesday | April 16th, 2019 | 15:30-17:30

S4_AIII_31 **Investigation of support effect of Fe-Cu-Co thin film catalyst on the catalytic activity and stability for CO oxidation** *Muhammad Waqas, Achraf El Kasmi, Patrick Mountapmbeme Kouotou, Zhen-Yu Tian*	S4_AIII_32 **Experimental investigation of stabilization and emission characteristics of ammonia combustion in a cyclonic burner** *G. Sorrentino, P. Sabia, P. Bozza, R. Ragucci, M. de Joannon*	S4_AIII_33 **Experimental study of MILD combustion in a cyclonic burner using prevaporized liquid fuels** *G. Sorrentino, P. Sabia, P. Bozza, R. Ragucci, M. de Joannon*	S4_AIII_34 **New method of refinery gas processing into valuable petrochemicals** *A.V. Nikitin, I.V. Sedov, V.I. Savchenko, V.S. Arutyunov*	S4_AIII_35 **A preliminary assessment of alternative fuels for marine engines using combustion chemistry tools** *G. Vourliotakis, M. A. Founti, G. Kazangas, L. Kaiktsis, G. Skevis*
S4_AIII_36 **Evaluation of gas turbine concepts for ammonia combustion** *R.C. Rocha, M. Costa, X.S. Bai*	S4_AIII_37 **Unsteady pure straining effects on lean premixed flames of different Lewis numbers** *J.A. Deney, I. Naydenova, F. Zhang, T. Zirwes, H. Bockhorn*	S4_AIII_38 **Laminar burning velocities and laser-induced fluorescence measurements of nitric oxide formation in propyl alcohols/air flames** *G. Capriolo, M. Lubrano Lavadera, C. Brackmann, T. Methling, A.A. Konnov*	S4_AIII_39 **Flame structures and local heat release rates during side-wall quenching of atmospheric methane and DME flames** *H. Kosaka, F. Zentgraf, A. Scholtissek, C. Hasse, A. Dreizler*	S4_AIII_40 **Influence of iron and phosphor containing additives on the laminar flame speed** *S. Lau, Y. Zhang, T. Kasper, B. Atakan*
S4_AIII_41 **Measurement of laminar burning velocity of SNG fuel with various hydrogen content** *S.H. Cho, J.H. Song, K.M. Lee*	S4_AIII_42 **Experimental study of the maximum upstream location of premixed CH_4/air and CH_4/O_2-He flames with repetitive extinction and ignition in a quartz micro flow reactor** *H. Chouraqui, C. Chauveau, P. Dagaut, F. Halter, G. Dayma*	S4_AIII_43 **Thermoacoustic instabilities: flame-flame interaction and boundary conditions** *Omer Rathore, Salvador Navarro-Martinez*	S4_AIII_44 **Numerical analysis of characteristics of biogas and syngas combustion** *T. Boushaki, K. Shway, H. Zaidaoui, P. Gillon, B. Sarh*	S4_AIII_45 **Laminar burning velocity of $CH_4/O_2/N_2/CO_2$ flames measured by heat flux method under elevated pressure** *Shixing Wang, Zhihua Wang, Yong He, Xinlu Han, Yanqun Zhu, Kefa Cen*
S4_AIII_46 **High-temperature laminar flame speed experiments in a shock tube: laminar flame speed, temperature, and species measurements** *Alison M. Ferris, Adam J. Susa, Julian J. Girard, David F. Davidson, Ronald K. Hanson*				

Poster Session 5

Wednesday | April 17th, 2019 | 10:30-12:30

S5_AII_01 **Non-ideal effects in shock tubes: experiments, modeling, and simulations** *D. Nativel, J.T. Lipkowicz, I. Wlokas, M. Fikri, A.M. Kempf, C. Schulz*	S5_AII_02 **An ignition delay time and kinetic modeling study of 1- and 2-pentene** *Shijun Dong, Kuiwen Zhang, William J. Pitz, Henry J. Curran*	S5_AII_03 **Plasma assisted combustion kinetics: modeling study for hydrogen-air mixtures in a non-thermal plasma reactor** *R. Snoeckx, M. S. Cha*	S5_AII_04 **High-pressure shock-tube study of the ignition and product formation of fuel-rich CH_4/dimethoxymethane/air mixtures** *Jürgen Herzler, Mustapha Fikri, Christof Schulz*	S5_AII_05 **Testing several butanol combustion mechanisms against a large set of experimental data and investigating their thermochemical data inconsistency** *M. Bolla, C. Olm, T. Nagy, I. Gy. Zsély, T. Turányi*
S5_AII_06 **Influence of pressure on H_2S conversion** *J.M. Colom-Díaz, M. Abián, Á. Millera, R. Bilbao, M.U. Alzueta*	S5_AII_07 **ARAS study of ethanol, butanol and DME reactions with atomic oxygen behind shock waves** *N. Bystrov, A. Emelianov, A. Eremin, P. Yatsenko*	S5_AII_08 **High temperature oxidation of 2,3-dimethyl-2-butene** *M. Goussougli, B. Sirjean, P.A. Glaude, R. Fournet*	S5_AII_09 **Modeling of NO_x formation and consumption during oxidation of small alcohols** *Krishna Prasad Shrestha, Lars Seidel, Thomas Zeuch, Fabian Mauss*	S5_AII_10 **A novel approach for nitrogen flux accounting of NO_x formation pathways in 1D flames** *O. Coulmann, M.D. Bohon, J. Vinkeloe, N. Djordjevic*
S5_AII_11 **Kinetic modeling of the destruction of organoarsenic toxics** *J.-C. Lizardo Huerta, B. Sirjean, L. Verdier, R. Fournet, P.-A. Glaude*	S5_AII_12 **CaRMeN: a novel software tool for the evaluation and development of reaction mechanisms** *H. Gossler, D. Schmider, O. Deutschmann*	S5_AII_13 **Thermochemical property estimation based on group additivity method: impact of groups on kinetic model predictions** *F. vom Lehn, L. Cai, H. Pitsch*	S5_AII_14 **On the reliability of Ab-Initio reaction rate constant estimations used for biofuel oxidation mechanisms on the example of $CH_3OH + H$** *Heiko Minwegen, Karl Alexander Heufer*	S5_AII_15 **Reduction of NO_x in combustion of solid waste fuels by the SNCR process using ammonium sulfate as alternative additive** *Kristian Krum, Martin Jensen, Hao Wu, Songgeng Li, Thomas Norman, Peter Glarborg*
S5_AII_16 **Experimental and modeling study of the oxidation of pentanones: 2-pentanone, 3-pentanone and 3-methyl-2-butanone** *Y. Fenard, C. Hemken, R. Büttgen, H. Minwegen, K. A. Heufer*	S5_AII_17 **Formation of Indene and Naphthalene through C_6+C_3 and C_7+C_3 reaction pathways in low-pressure premixed flames** *T. Methling, M. Braun-Unkhoff, B. Yang, N. Hansen*	S5_AII_18 **NO emission prediction using virtual optimized chemistry** *Giampaolo Maio, A. Cuoci, B. Fiorina*	S5_AII_19 **Probing the low-temperature oxidation of tetrahydropyran and its effect on toluene ignition** *Martina Baroncelli, Rupali Tripathi, Nils Hansen, Heinz Pitsch*	S5_AII_20 **Synthesized alternative kerosenes – characterization through experiments and modeling** *S. Richter, C. Naumann, T. Kathrotia, M. Braun-Unkhoff, U. Riedel*
S5_AII_21 **Ethane/nitrous oxide mixtures as a green propellant to substitute hydrazine: validation of reaction mechanism** *C. Naumann, C. Janzer, U. Riedel*	S5_AII_22 **Mechanism comparison for PAH formation in pyrolysis and laminar premixed flames** *W. Pejpichestakul, R. Tripathi, M. Pelucchi, L. Cai, H. Pitsch, E. Ranzi, T. Faravelli*	S5_AII_23 **Ammonia oxidation in a JSFR reactor. Towards a better understanding of ammonia chemistry** *P. Sabia, M. V. Manna, M. de Joannon, R. Ragucci*	S5_AII_24 **Degree centrality of combustion reaction networks for analyzing and modelling combustion processes** *Ahmad Saylam, Kamal Hadj Ali, Mustapha Fikri*	S5_AII_25 **High temperature synthesis of TiO_2 nanoparticles using TTIP-methane flat premixed flame** *Ho Yeon Lee, Chun Loon Cha, Sang Soon Hwang*
S5_AII_26 **Comparative mass spectrometric study of gaseous key intermediates from tetramethylsilane and hexamethyldisiloxane in silica synthesis flames** *Y. Karakaya, T. Kasper*	S5_AII_27 **Impact of the injector geometry on soot production in a model scale swirled combustor under perfectly premixed rich conditions** *M. Roussillo, P. Scouflaire, N. Darabiha, D. Veynante, S. Candel, B. Franzelli*	S5_AII_28 **Experimental and numerical investigation of iron-oxide nanoparticles from flame assisted synthesis** *M. Nanjaiah, A. Pilipodi-Best, A. Fomin, S. Cheskis, L. Deng, H. Jünger, J. Sellmann, A. Kempf, I. Wlokas, I. Rahinov*	S5_AII_29 **Soot formation in laminar diffusion flames with population balance modelling and laser diagnostics** *Anxiong Liu, Carlos E. Garcia, Fabian Sewerin, Benjamin A.O. Williams, Stelios Rigopoulos*	S5_AII_30 **Absolute iron atom concentration imaging in nanoparticle flame-synthesis reactor using self-calibrating laser induced fluorescence** *M.R. Lalanne, O. Blumer, A. Fomin, A. Pilipodi-Best, S. Cheskis, I. Rahinov*

Poster Session 5

Wednesday | April 17th, 2019 | 10:30-12:30

S5_AII_31 **Newly-designed catalytic jet-stirred reactor for low-temperature oxidation of T135MB** *Achraf El Kasmi, Guan-Fu Pan, Zhen-Yu Tian*	S5_AIII_32 **Dehydrogenation of a chemical hydrogen carrier using a porous media burner** *J. Bollmann, L. Zigan, S. Will*	S5_AIII_33 **Chemiluminescence and structure characteristics of a H_2/O_2 downward inverse diffusion flame** *K. Utria, C. Galizzi, M. Kühni, D. Escudié, S. Labor*	S5_AIII_34 **The impact fragmentation tendency of limestone particles in calcium looping systems: effect of steam and sulphur dioxide** *A. Coppola, A. Esposito, F. Montagnaro, F. Scala, P. Salatino*	S5_AIII_35 **Sorption-enhanced methanation in a dual fluidized bed system: evaluation of two sorbents** *A. Coppola, F. Massa, P. Salatino, F. Scala*
S5_AIII_36 **Emissions from combustion of fuels with oleoresin-based compounds as additives** *Duban Fabián García Navas, Felipe Bustamante Londoño, Aída Luz Villa Holguín, Edwin Alexis Alarcón Durango*	S5_AIII_37 **Implementation and validation of the discrete ordinates method for calculation of radiative heat transfer in the CFD software AVL FIRE™** *F. Jurić, Z. Petranović, M. Vujanović, P. Priesching, R. Tatschl*	S5_AIII_38 **Effects of CO_2-H_2O dilution on characteristics of CH_4-air-O_2 flames** *H. Zaidaoui, T. Boushaki, J.C. Sautet, C. Chauveau, I. Gökalp*	S5_AIII_39 **Reliability of particulate matter sensor operation during uncomfortable weather conditions** *Cs. Báthory, M. L. Kiss, A. Trohák, Zs. Dobó, A. B. Palotas*	S5_AIII_40 **Effects of inner swirl on flow and combustion patterns from non-premixed oxygen enriched flames above coaxial injectors** *A. Degenève, C. Mirat, R. Vicquelin, J. Caudal, T. Schuller*
S5_AIII_41 **The influence of the combustion operation parameters in the process burners on the formation of NO_x and heat fluxes** *Pavel Skryja, Radek Šimecek, Igor Hudak, Jiri Bojanovsky*	S5_AIII_42 **Cold flow analysis, flame stability and emission properties of blade-based premixed swirl burners at various blade angles** *M. Hefele, S. Eckart, C. Krasselt, H. Chaves, H. Krause*	S5_AIII_43 **Using high-speed multispectral infrared imaging for temperature calculation of composite materials under kerosene flame** *Alexandrine Huot, Martin Larivière-Bastien, Marc-Antoine Langevin, Benjamin Saute, Stéphane Boubanga-Tombet, Serge-Olivier-Adam Gnessougou, Alain De Champlain*	S5_AIII_44 **Natural gas replacement by syngas in Resource Energy Intensive Industries (REII) burners: numerical CFD evaluation** *H. Olmedo, M. Castaños, L. Aldea, A. Kiedrzyńska, R. Lewtak*	S5_AIII_45 **Combustion-specific deep neural networks for modeling reactive flows** *M. Bode, K. Kleinheinz, D. Denker, H. Pitsch*
S5_AIII_46 **Ignition and early stages of flame propagation in a non-premixed biogas planar turbulent jet** *Charles Turquand d'Auzay, Samer F. Ahmed, Nilanjan Chakraborty*	S5_AIII_47 **Large eddy simulations of reacting spray jet with active control** *J. Stempka, A. Tyliszczak*	S5_AIII_48 **Determination of a correlation for predicting lean blow off limits of gaseous fueled, premixed turbulent jet flame arrays enclosed in a hexagonal dump combustor** *C. Weis, A. Schwagerus, S. Faller, R. Bhagwan, P. Habisreuther, N. Zarzalis*	S5_AIII_49 **Large eddy simulation of a lab-scale 30 kW furnace operating in MILD combustion** *M. Cordier, P. Lybaert, L. Bricteux*	S5_AIII_50 **Fundamental analysis of DME pilot-ignited methane-air flame** *B. S. Soriano, E. S. Richardson*
S5_AIII_51 **Turbulent bluff-body flames close to stability limits revealed by coupling of high speed optical diagnostics** *Nelson Valdez, David Honore, Corine Lacour, Bertrand Lecordier, Armelle Cessou*	S5_AIII_52 **Mixing and entrainment of burned products in high Karlovitz number premixed jet flames** *Antonio Attili, Konstantin Kleinheinz, Dominik Denker, Lukas Berger, Fabrizio Bisetti, Heinz Pitsch*	S5_AIII_53 **Multi-scalar and velocity measurements in a turbulent bluff-body flame using spectral fitting of spontaneous Raman scattering and PIV** *Florestan Guichard, Nelson Valdez, Pascal Boubert, David Honore, Corine Lacour, Bertrand Lecordier, Armelle Cessou*	S5_AIII_54 **Data-driven model development for CO emissions in stationary gas turbines** *Konstantin Kleinheinz, Paul Maß, Lukas Berger, Mathis Bode, Temistocle Grenga, Antonio Attili, Heinz Pitsch*	S5_AIII_55 **The influence of the reactor model on EDC's mean reaction rate - a study on the relevance of choice** *S. Tomasch, I. S. Ertesvåg*
S5_AIII_56 **Flame stabilization in a cavity based scramjet** *J. Ruan, P. Domingo, G. Ribert*	S5_AIII_57 **Modelling and simulation of high-pressure flows** *U. Guven, G. Ribert*	S5_AIII_58 **Mesh partitioning of reactive flow simulations – speed-up and other side effects** *E.-M. Wartha, M. Bösenhofer, C. Jordan, M. Harasek*	S5_AIII_59 **Auto-ignition characteristics of transient methane, biogas and syngas jets at elevated pressureand temperature conditions: an axisymmetric DNS study** *M. Rabaçal, A. Corti, G.K. Giannakopoulos, C.E. Frouzakis, K. Boulouchos*	

9TH EUROPEAN COMBUSTION MEETING 2019

14 - 17 April, 2019 | Lisboa | **Portugal**

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