



11th EUROPEAN CONFERENCE ON INDUSTRIAL FURNACES & BOILERS

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LIST DRAFT PAPERS SUBMITTED

Each draft paper is now being reviewed by three Referees. Authors will be notified of final acceptance/rejection by 20 January 2017. Final, completed papers will be required by 20 February 2017.

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Austria

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Franz Edler, Christoph Spijker, Harald Raupenstrauch and Bernhard Geier

K1-met GmbH and Chair of Thermal Processing Technology, Montanuniversitaet Leoben (Austria)

THE VIRTUAL BIOMASS GRATE FURNACE - AN OVERALL CFD MODEL FOR BIOMASS COMBUSTION PLANTS

Ali Shiehnejadhesar, Ramin Mehrabian, Robert Scharler and Christoph Hochenauer

BIOENERGY 2020+ GmbH and Institute of Thermal Engineering, Graz University of Technology (Austria)

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Institute of Thermal Engineering, Graz University of Technology and Institute of Process and Environmental Engineering, Brno University of Technology (Austria)

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BIOS BIOENERGIESYSTEME GmbH (Austria)

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BIOS BIOENERGIESYSTEME GmbH (Austria)

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Graz University of Technology, Messer Austria GmbH and Marienhütte GmbH (Austria)

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Andrés Anca-Couce, Peter Sommersacher, Robert Scharler and Christoph Hochenauer
Institute of Thermal Engineering, Graz University of Technology and BIOENERGY 2020+ GmbH (Austria)

Belgium

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Université Libre de Bruxelles (Belgium) and Institute for Clean and Secure Energy, University of Utah (USA)

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University of Liège (Belgium)

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Drever International S.A. and von Karman Institute for Fluid Dynamics (Belgium)

Brazil

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Federal University of Pará (Brazil)

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ITA Instituto Tecnológico da Aeronáutica (Brazil)

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Aalborg University, Department of Energy Technology (Denmark)

Finland

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Lappeenranta University of Technology (Finland) and Federal University of Minas Gerais (Brazil)

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Aalto University, School of Chemical Technology (Finland)

France

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CORIA - CNRS, Normandie Université, Université de Rouen, Air Liquide and CMI GreenLine Europe (France)

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CORIA - CNRS, Normandie Université, Université de Rouen and Air Liquide (France)

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Germany

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Karlsruhe Institute of Technology (Germany)

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TU Bergakademie Freiberg (Germany)

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TU Bergakademie Freiberg (Germany)

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DBI Gas- und Umwelttechnik GmbH (Germany)

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OWI-Oel-Waerme-Institut GmbH (Germany)

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Karlsruhe Institute of Technology (Germany)

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Department of Industrial Furnaces and Heat Engineering (Germany)

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FVTR GmbH and University of Rostock (Germany)

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University of Stuttgart (Germany)

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Ruhr-University and Uniper Technologies GmbH (Germany)

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Technical University of Munich (Germany)

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Ruhr-Universität Bochum (Germany)

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Jaganathan V. M. and Varunkumar S.
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Iran

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Mahdi Bordbar and Hadi Pasdarshahri
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Giancarlo Sorrentino, Ugur Göktolga, Mara De Joannon, Jeroen Van Oijen, Antonio Cavaliere and Philip De Goey
Istituto di Ricerche sulla Combustione - Consiglio Nazionale delle Ricerche (Italy), DICMaPI - Università degli Studi di Napoli Federico II (Italy) and Department of Mechanical Engineering, Eindhoven University of Technology (Netherlands)

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Cesare Sacconi, Augusto Bianchini and Marco Pellegrini
Department of Industrial Engineering - University of Bologna (Italy)

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Antonio Coppola, Osvalda Senneca and Piero Salatino
Istituto di Ricerche sulla Combustione - Consiglio Nazionale delle Ricerche and Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale - Università degli Studi di Napoli Federico II (Italy)

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Federico Viganò and Francesco Magli
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Japan

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Osaka Univ. Dept. of Mechanical Engineering and Taiyo Nippon Sanso Co., Ltd. (Japan)

Luxembourg

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Mohammad Mohseni and Bernhard Peters
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Netherlands

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Martin Van 'T Hoff and Robin Zwart
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Hai Wu and Bertie Van Benschop
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X. Huang, M.J. Tummers and D.J.E.M. Roekaerts
Delft University of Technology (Netherlands)

Norway

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Khanh-Quang Tran, Maria Zabalo Alonso, Liang Wang, Øyvind Skreiberg and Thuat T. Trinh
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Rajesh S Kempegowda, Khanh-Quang Tran, Øyvind Skreiberg and Thuat T. Trinh
SINTEF Energy Research and Norwegian University of Science and Technology (Norway)

Poland

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ICS Industrial Combustion Systems Poznan and Poznan University of Technology (Poland)

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Wieslaw Rybak, Anna Kisiela, Wojciech Moroń, Krzysztof Czajka, Karol Król, Arkadiusz Szydełko and Wieslaw Ferens
Wroclaw University of Technology (Poland)

Portugal

AIR LEAKS

Jorge Pereira
BA Vidro (Portugal)

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Isabel Brás, M. E. Silva, G. Lobo, A. Cordeiro, M. Faria and L. T. De Lemos
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ANALYSIS AND MODELING OF COMBUSTION IN BIOMASS FURNACE

João Silva, José Teixeira, Senhorinha Teixeira and Simone Preziati
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NUMERICAL STUDIES OF PREMIXED AND DIFFUSION MESO/MICRO-SCALE FLAMES

A. Cova, P.R. Resende, A. Cuoci, M. Ayoobi, A.M. Afonso and C.T Pinho
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Saudi Arabia

CONICAL QUARL SWIRL STABILIZED NON-PREMIXED FLAMES: FLAME AND FLOW FIELD INTERACTION

Ayman Elbaz and William Roberts
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Russia

LIQUID HYDROCARBONS COMBUSTION WITH SUPPLYING OF SUPERHEATED STEAM JET

Igor Anufriev, Oleg Sharypov, Evgeniy Kopyev and Sergey Alekseenko
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Slovenia

ADVANCED HEAT TRANSFER MODELING OF 600 MWE UTILITY BOILER

Warga Zeljko, Butala Vincenc, Gobbi Massimo and Massimo Gobbi
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Spain

BLAST FURNACE GAS BASED COMBUSTION SYSTEMS IN STEEL REHEATING FURNACES

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ArcelorMittal (Spain), Centro Sviluppo Materiali (Italy), Tenova (Italy), Swerea MEFOS (Sweden), AGA Linde (Sweden) and VDEh-Betriebsforschungsinstitut (Germany)

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Universidad del País Vasco UPV-EHU, CIEMAT, CEDER-CIEMAT and Instituto de Tecnología Cerámica and INTA (Instituto Nacional de Técnica Aeroespacial) (Spain)

Sweden

ON-LINE ALKALI MEASUREMENT DURING OXY-FUEL COMBUSTION

Tomas Leffler, Magnus Berg, Christian Brackmann, Zhongshan Li and Marcus Aldén
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Switzerland

COMBUSTION OF TORREFIED BIOMASS CHIPS AND PELLETS PRODUCED LOCALLY IN SMALL AND MEDIUM SCALE BOILERS. COMPARISON WITH NON-TORREFIED FUEL OPERATION

Michel Jean-Bernardl, Mark McCormick, Claire Tansley, Boris Correa, Justyna Eaves, Martin Schmid and Mario Vogeli
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NEW DEVELOPMENTS IN FLOW SENSORS FOR INDUSTRIAL FURNACES

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PREVENTING AUTOIGNITION INSIDE THE BURNER WITH HIGH TEMPERATURE OXIDANT PREHEATING

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ROTATING CYLINDERS FOR DEVELOPMENT OF CONVECTION IN HIGH TEMPERATURE COIL ANNEALING (HTCA) FURNACES

Oula Fatla, Agustin Valera-Medina, Fiona Robinson, Mark Cichuta and Nathan
Cardiff University, COGENT Power and TATA Steels (United Kingdom)

EXPERIMENTAL AND NUMERICAL INVESTIGATION OF AN ULTRA-LOW NOX METHANE BURNER

Ingrid El Helou, Jenna Foale, Andrea Giusti, Jenni Sidey and Epaminondas Mastorakos
Hopkinson Laboratory, Department of Engineering, University of Cambridge (United Kingdom)

NOX REDUCTION USING ADVANCED TECHNIQUES IN A 175MWTH MULTI-FUEL CORNER-FIRED BOILER

Michael Kryjak, James Dennis and Graeme Ridler
RJM Corporation (EC) Ltd (United Kingdom)

A STUDY INTO THE EFFECT OF AGGLOMERATE FORMATION DURING BIOMASS COMBUSTION IN A PILOT SCALE BUBBLING FLUIDISED BED UNIT AND ASSOCIATED DESIGN MODIFICATION

Stephen Chilton and William Nimmo
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USA

CFD MODELLING EVALUATION OF SPRAY NOZZLES

Allan Walsh
Jansen Combustion and Boiler Tech, Inc. (USA)

DESIGN CHALLENGES FOR TWO HAZARDOUS WASTE BOILERS WITH POLLUTION CONTROL

William Norris and Michael Mannuzza
O'Brien & Gere (USA)