

MONDAY – WORK-IN-PROGRESS POSTERS

W1P001: A MATHEMATICAL MODEL FOR THREE DIMENSIONAL DETONATION AS PURE GAS-DYNAMIC DISCONTINUITY

Jorge Yanez, Karlsruhe Institute für Technologie, Germany

W1P002: BAROMETRIC CALORIMETER EXPERIMENTS WITH C4 CHARGES

Allen Kuhl, Joseph Tringe, Kevin Vandersall, Lawrence Livermore National Laboratories, USA

W1P003: DETONATION WAVE STRUCTURE IN AN ALUMINUM-AIR MIXTURE IN A TUNNEL

Allen Kuhl, Kaushik Balakrishnan, John Bell, Lawrence Livermore National Laboratory, USA

W1P004: NUMERICAL INVESTIGATION OF SHOCK WAVE REFLECTION AT HEAD END OF ROTATING DETONATION ENGINES

Rui Zhou, Jian-ping Wang, Peking University, China

W1P005: EXPERIMENTAL VALIDATION OF A 1-D MODEL FOR PREDICTING IGNITION LIMITS OF PRESSURIZED HYDROGEN JETS

Brian Maxwell, Matei Radulescu, University of Ottawa, Canada

W1P006: FLAME ACCELERATION IN MICRO-TUBES AND MICRO-GAPS: THEORY AND EXPERIMENTAL COMPARISON

V'yacheslav Akkerman, Chung K. Law, Princeton University, USA

W1P007: FLAME ACCELERATION AND DDT OF BLENDED $\text{CH}_4/\text{H}_2/\text{O}_2$ MIXTURE IN SMOOTH TUBES OF MILLIMETER SCALE

Yao-Chung Hsu, Yei-Chin Chao, National Cheng Kung University, Taiwan

W1P008: PROPAGATION OF EXPANDING CYLINDRICAL DETONATION WAVE IN A LARGE BORE PULSE DETONATION ENGINE COMBUSTOR

Masashi Wakita, Kazuya Sajiki, Tsunetaro Himono, Tsuyoshi Totani, Harunori Nagata, Hokkaido University, Japan

W1P009: NUMERICAL INVESTIGATIONS ON DETONATIONS PROPAGATING IN TWO-DIMENSIONAL CURVED CHANNEL

Yuta Sugiyama¹, Akiko Matsuo¹, Hisahiro Nakayama², Jiro Kasahara²¹Keio University, Japan ²University of Tsukuba, Japan

W1P010: EXPLOSION ACCIDENTS IN FUKUSHIMA DAIICHI NUCLEAR POWER PLANT AFTER THE GREAT EAST JAPAN EARTHQUAKE ON MARCH 11, 2011

Takashi Tsuruda, Akita Prefectural University, Japan

W1P011: EFFECT OF FLAME BEHAVIOR ON BLAST WAVE GENERATED BY UNCONFINED GAS EXPLOSIONS

Ritsu Dobashi, Woo-Kyung Kim, Toshio Mogi, The University of Tokyo, Japan

W1P012: EXPERIMENTAL RESEARCH ON DUST LIFTING UP FROM THE LAYER BY PROPAGATING SHOCK WAVE

Pawel Oleszczak, Rudolf Klemens, Przemyslaw Zydak, Warsaw University of Technology, Poland

W1P013: ROTATING DETONATION ENGINE ROTHALPY ANALYSIS

Craig Nordeen¹, Doug Schwer², Fred Schauer³, John Hoke³, Thomas Barber¹, Baki Cetegen¹

¹University of Connecticut, USA ²US Naval Research Laboratory, USA ³US Air Force Research Laboratory, USA

W1P014: TWO-DIMENSIONAL SIMULATION OF CYLINDRICAL DETONATION USING DIRECT INITIATION

Dan Wu, Jianping Wang, Peking University, China

W1P015: EVALUATION OF EXPLOSION AND DETONATION IN AIR SUSPENSIONS OF FUEL DROPLETS

Andrzej Papliński, Military University of Technology, Poland

W1P016: DETONATION PROPERTIES OF ETHYLENE-METHANE-OXYGEN-ARGON MIXTURES

Hidefumi Kataoka¹, Ryuutaro Numata², Atsuhiro Kawamura², Koji Fumoto³, Daisuke Segawa¹, Kazuhiro Ishii⁴

¹Osaka Prefecture University, Japan ²Kushiro National College of Technology, Japan ³Hirosaki University, Japan ⁴Yokohama National University, Japan

W1P017: NUMERICAL STUDY OF IRREGULAR GASEOUS DETONATION DIFFRACTION

Majid Sabzpooshani, University of Kashan, Iran

W1P018: INVESTIGATION OF THE FRICTION EFFECT ON PROPAGATION, WEAKEN AND FAILURE OF GASEOUS DETONATION WAVE AT NEAR OF IDEAL DETONATION STABILITY CONDITION

Majid Sabzpooshani, University of Kashan, Iran

W1P019: ONSET OF DETONATION BY FORCED IGNITION AT WALL SURFACE BEHIND AN INCIDENT SHOCK WAVE

Sakiko Ishihara¹, Shunsuke Tamura¹, Kazuhiro Ishii¹, Hidefumi Kataoka²¹Yokohama National University, Japan ²Osaka Prefecture University, Japan

- W1P020: AN EXPERIMENTAL INVESTIGATION OF SELF-IGNITION OF HYDROGEN IMPULSE JET DISCHARGED UNDER HIGH PRESSURE INTO AIR
Sergey Golovastov, Victor Golub, Vladimir Bocharnikov, Joint Institute for High Temperatures of the Russian Academy of Sciences, Russia
- W1P021: RESPONSE OF CRITICAL TUBE DIAMETER PHENOMENON TO SMALL PERTURBATIONS FOR GASEOUS DETONATIONS
Hoi Dick Ng¹, Navid Mehrjoo¹, Bo Zhang², Rocco Portaro¹, John H.S. Lee³¹Concordia University, Canada ²Beijing Institute of Technology, China ³McGill University, Canada
- W1P022: MODELLING THE FLAMMABILITY LIMITS FOR PREMIXED GAS MIXTURES IN THE CFD TOOL FLACS
Helene Pedersen¹, Bjørn Johan Arntzen¹, Prankul Middha², Kees van Wingerden²¹University of Bergen, Norway ²GexCon AS, Norway
- W1P023: NUMERICAL ANALYSIS OF LARGE SCALE STRUCTURE OF ROTATING DETONATION WAVES IN COMPLEX GEOMETRIES
Arkadiusz Kobiera, Michal Folusiak, Karol Swiderski, Piotr Wolanski, Warsaw University of Technology, Poland
- W1P024: ROTATING DETONATION ENGINE RESEARCH AT AFRL
James Karnesky, Andrew Naples, John Hoke, Fred Schauer, US Air Force Research Laboratory, USA
- W1P025: PROPAGATING MODE AND VELOCITY DEFICIT OF H₂-O₂ SYSTEM DETONATION NEAR EXTINCTION LIMITS IN SMALL DIAMETER TUBES
Akio Susa, Kazuya Sadahira, Yuhei Kitawaki, Syogo Tanaka, Takuma Endo, Hiroshima University, Japan
- W1P026: BOUNDARY LAYER DEVELOPMENT BEHIND GASEOUS DETONATIONS
Jason Damazo, Joseph Shepherd, California Institute of Technology, USA
- W1P027: NUMERICAL STUDY OF INFLUENCES OF INCIDENT SHOCK WAVE INTERACTION WITH TRANSVERSE HYDROGEN INJECTION ON THE MIXING AND COMBUSTION BY A HIGH ORDER NUMERICAL SCHEME FOR SUPERSONIC REACTIVE FLOWS
Yashar Shoraka, Sadegh Tabejamaat, Amirkabir University of Technology, Iran
- W1P028: A BRIEF HISTORY OF DUST EXPLOSION RESEARCH
Trygve Skjold, Rolf K. Eckhoff, University of Bergen, Norway
- W1P029: FLAME ACCELERATION IN AN OBSTACLE LADEN NARROW CHANNEL
Gaby Ciccarelli, Mark Kellenberger, Thomas Pinos, Queen's University, Canada
- W1P030: NUMERICAL STUDY OF THE EFFECT OF INJECTION MODELING ON SUPERSONIC COMBUSTION WITH DIRECT INJECTION OF HYDROGEN IN A CAVITY-BASED COMBUSTOR
Yashar Shoraka, Sadegh Tabejamaat, Aydin Samadi Qushchi, Amirkabir University of Technology, Iran
- W1P031: USING PURE ROTATIONAL CARS TO CHARACTERIZE GAS PHASE TEMPERATURES IN A FLAME SPRAY PYROLYSIS PROCESS
*Yi Gao¹, Sascha Engel¹, Andreas Koegler¹, Daniel Kilian¹, Michael Voigt¹, Thomas Seeger², Wolfgang Peukert¹, Alfred Leipertz¹
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- W1P032: INVESTIGATION OF THE THERMAL STABILITY OF LIF-TRACERS IN COMBUSTION APPLICATIONS
Johannes Trost¹, Lars Zigan¹, Simone Eichmann¹, Thomas Seeger², Alfred Leipertz¹¹LTT Erlangen, Germany ²University of Siegen, Germany
- W1P033: QUANTITATIVE VAPOR TEMPERATURE AND CONCENTRATION IMAGING IN DISI-SPRAYS USING TWO-LINE EXCITATION LASER-INDUCED FLUORESCENCE
Johannes Trost, Lars Zigan, Alfred Leipertz, LTT-Erlangen, Germany
- W1P034: PARTICLE MASS SPECTROMETER—QUARTZ CRYSTAL MICROBALANCE DIAGNOSTICS OF IRON OXIDE NANOPARTICLE FLAME SYNTHESIS
Sergey Cheskis¹, Marina Poliak¹, Amir Hevroni¹, Vladimir Tsionsky¹, Igor Rahinov²¹Tel Aviv University, Israel ²Open University of Israel, Israel
- W1P035: DIESEL EXHAUST NO/NO₂/NH₃ TRANSIENTS MEASUREMENT FOR FAST SCR REACTION
Inchul Choi¹, William Partridge², Jim Parks²¹Korea Institute of Industrial Technology, Korea ²Oak Ridge National Laboratory, USA
- W1P036: COMPARISON OF THREE SCHEMES OF TWO-PHOTON LASER INDUCED FLUORESCENCE FOR CO DETECTION
Joakim Rosell, Lund Institute of Technology, Sweden
- W1P037: SIGNAL-TO-NOISE AND SIGNAL-TO-BACKGROUND RATIOS IN LAMINAR AND TURBULENT FLAMES OF ETHYLENE AND ETHANE IN 1-D RAMAN/RAYLEIGH SCATTERING AND CO-LIF MEASUREMENTS
Frederik Fuest¹, Robert S. Barlow², Jeffrey A. Sutton¹, Andreas Dreizler³¹The Ohio State University, USA ²Sandia National Laboratories, USA ³TU Darmstadt, Germany
- W1P038: TWO-DIMENSIONAL SIMULTANEOUS TEMPERATURE AND VELOCITY MEASUREMENTS IN HEATED GAS FLOW WITH APPLICATION OF THERMOGRAPHIC PHOSPHORS
Gordana Jovicic, LTT Erlangen, Germany

- W1P039: SPATIALLY AND TEMPORALLY RESOLVED LASER-INDUCED FLUORESCENCE OF OH AND CO USING A DUAL PICOSECOND OPG/OPA LASER SYSTEM
Malin Jonsson, Andreas Ehn, Marcus Alden, Joakim Bood, Lund University, Sweden
- W1P040: OXYGEN THERMOMETRY—EFFECTS OF ROTATIONAL ENERGY TRANSFER WITHIN THE O₂X TRIPLET SIGMA (V'' = 7) STATE
Felix Grygier, Alexey Denisov, Rolf Bombach, Paul Scherrer Institute, Switzerland
- W1P041: COMPARISON OF MODELED LASER-INDUCED INCANDESCENCE SIGNALS WITH EXPERIMENTALLY MONITORED LII PROFILES MEASURED IN A DIESEL TURBULENT SPRAY FLAME—DEVELOPMENT OF A NUMERICAL MODEL BASED ON INVERSE METHODS ALLOWING THE DETERMINATION OF SOME PHYSICAL PROPERTIES OF SOOT PARTICLES
Romain Lemaire, Mohammed Mobtil, Ecole des Mines de Douai, France
- W1P042: WAVELET CHARACTERIZATION OF THE FLOW REGIME IN A GAS-SOLID FLUIDIZED BED
Maria Luiza Indrusiak¹, Yesid Rueda-Ordóñez², Araújo Augusta Pécora²¹UNISINOS, Brazil²UNICAMP, Brazil
- W1P043: CHARACTERIZATION AND CONTROL OF SELF-EXCITED OSCILLATIONS ON A MODEL SLIT-BURNER USING CHEMILUMINESCENCE- AND SCHLIEREN-METHODS
Raimund Noske¹, Thomas Lammersen², Dirk Abel², Andreas Brockhinke¹¹Bielefeld University, Germany²RWTH-Aachen University, Germany
- W1P044: MEASUREMENTS OF ABSORPTION IN ATMOSPHERIC FLAT FLAMES WITH FIBER LASER INTRACAVITY ABSORPTION SPECTROSCOPY
Vladimir Alekseev¹, Valery Baev², Sergey Cheskis³, Alexander Konnov¹¹Lund Institute of Technology, Sweden²Universität Hamburg, Germany³Tel-Aviv University, Israel
- W1P045: HIGH-SPEED 3-D IMAGING OF TWO PHASE FLOW
Rikard Wellander, Mattias Richter, Marcus Aldén, Lund University, Sweden
- W1P046: OPTICAL-FIBER LASER-INDUCED FLUORESCENCE AND MULTI-SPECIES PROFILE MEASUREMENTS IN OPTICALLY INACCESSIBLE SYSTEMS
Heiner Schwarz, Michael Geske, Raimund Horn, Fritz Haber, Institute of the Max Planck Society, Germany
- W1P047: COMBINATION OF VARIOUS PARTICLE MEASUREMENT TECHNIQUES FOR VALIDATION OF TIRE-LII IN LAMINAR HIGH PRESSURE FLAMES
Martin Leschowski¹, Emre Cenker², Thomas Dreier¹, Gilles Bruneaux², Christof Schulz¹¹University of Duisburg, Germany²IFPE, France
- W1P048: EFFECTIVE FLUORESCENCE LIFETIMES OF ORGANIC FUEL TRACERS FOR COMBUSTION RELEVANT ENVIRONMENTAL CONDITIONS
Stephan Faust, Thomas Dreier, Christof Schulz, University of Duisburg, Germany
- W1P049: CHEMILUMINESCENCE SENSOR FOR TEMPORALLY RESOLVED FUEL/AIR RATIO MEASUREMENTS COUPLED WITH PLANAR HEAT RELEASE RATE IMAGING
Markus Röder, Thomas Dreier, Christof Schulz, University of Duisburg, Germany
- W1P050: WIDE-ANGLE LIGHT SCATTERING (WALS) FOR PARTICLE CHARACTERIZATION IN FLAMES—RECENT DEVELOPMENTS
Stefan Will¹, Hergen Oltmann²¹LTT Erlangen, Germany²University of Bremen, Germany
- W1P051: DEVELOPMENT AND CHARACTERIZATION OF A RAMAN BASED SENSOR SYSTEM FOR THE ANALYSIS OF BIOGAS COMPOSITION
Simone Eichmann¹, Johannes Tröger², Johannes Kiefer³, Thomas Kempf⁴, Jochen Benz⁵, Thomas Seeger², Alfred Leipertz¹¹Universität Erlangen-Nürnberg, Germany²Universität Siegen, Germany³University of Aberdeen, UK⁴Erdgas SüdWest, Germany⁵EnBW Energie Holding AG, Germany
- W1P052: SURFACE TEMPERATURE DISTRIBUTION REMOTE PHOSPHOR THERMOMETRY OF A POROUS MEDIA BURNER USING LASER-INDUCED PHOSPHORESCENCE INTENSITY MEASUREMENTS
Ala Jaber, LTT-Erlangen, Germany
- W1P053: INFLUENCE OF SOOT AGGREGATE STRUCTURE ON PARTICLE SIZING USING LASER-INDUCED INCANDESCENCE
Jonathan Johnsson, Lund University, Sweden
- W1P054: QUANTIFICATION AND ACCURACY OF A CMOS-BASED RAMAN SCATTERING IMAGING SYSTEM FOR HIGH-SPEED MEASUREMENTS IN FLAMES
Kathryn Gabet, Frederik Fuest, Jeffrey Sutton, The Ohio State University, USA
- W1P055: DEVELOPMENT OF A NEW *IN-SITU* DIAGNOSTIC FOR ACETYLENE MEASUREMENTS IN COMBUSTION APPLICATIONS
Muhammad Bilal Sajid, Ettouhami Essebbar, Aamir Farooq, University of King Abdullah Science & Technology, Saudi Arabia
- W1P056: SIMULTANEOUS MEASUREMENTS OF O₂ CONCENTRATION AND TEMPERATURE DISTRIBUTIONS IN A FURNACE USING A SINGLE DIODE LASER SYSTEM
Sungwoon Youn, Sewon Kim, Myoungchul Shin, Changyeop Lee, Korea Institute of Industrial Technology, Korea
- W1P057: AN ION TRAP TIME OF FLIGHT MASS SPECTROMETER FOR ON-LINE DIAGNOSIS OF PRESSURE-DEPENDENCE PREMIXED FLAMES
Fei Qi, Zhongyue Zhou, Yu Wang, Xiaofeng Tang, Jiuzhong Yang, Zhandong Wang, University of Science and Technology of China, China

- W1P058: INVESTIGATION OF CHEMICAL QUENCHING MECHANISM ON METAL SURFACES BASED ON PLIF MEASUREMENT OF OH GENERATED WITH PULSED ARC DISCHARGE
Weirong Lin, The University of Tokyo, Japan
- W1P059: PURE ROTATIONAL CARS MEASUREMENTS OF TEMPERATURE AND RELATIVE O₂-CONCENTRATION IN A TURBULENT PREMIXED FLAME
Emil Nordström, Alexis Bohlin, Henning Carlsson, Xue-Song Bai, Per-Erik Bengtsson, Lund University, Sweden
- W1P060: VIBRATIONAL HIGH-RESOLUTION N₂ CARS THERMOMETRY: INFLUENCE OF H₂ COLLISIONS ON THERMOMETRIC ACCURACY
Emil Nordström¹, Alexis Bohlin¹, Per-Erik Bengtsson¹, Michele Marrocco²¹Lund University, Sweden ²ENEA-Rome, Italy
- W1P061: HIGH-SPEED SPECTRALLY-INTEGRATED TOLUENE LIF TO IMAGE TEMPERATURE FLUCTUATIONS IN AN IC ENGINE
Christian Meffert, Martin Schild, Sebastian Kaiser, Christof Schulz, University of Duisburg-Essen, Germany
- W1P062: SPATIALLY RESOLVED NON-INTRUSIVE MEASUREMENTS OF COMBUSTION INTERMEDIATE SPECIES USING MID-INFRARED POLARIZATION SPECTROSCOPY IN LOW PRESSURE FLAMES
Anna-Lena Sahlberg, Zhiwei Sun, Zhongshan Li, Marcus Aldén, Lund University, Sweden
- W1P063: OPTIMIZATION OF HCO PLIF DETECTION FOR SINGLE-SHOT FLAME FRONT VISUALIZATION IN TURBULENT HYDROCARBON FLAMES
Bo Zhou, Zhongshan Li, Lund University, Sweden
- W1P064: SPONTANEOUS RAMAN SCATTERING FOR INSTANTANEOUS TEMPERATURE MEASUREMENT IN FL
Armelle Cessou, Amath Lo, Pierre Vervisch, CORIA-CNRS, France
- W1P065: EVALUATION OF INDIUM SEEDING SYSTEM USING TWO-LINE ATOMIC FLUORESCENCE WITH DIODE LASERS
Jesper Borggren, Bo Zhou, Ron Whiddon, Zhongshan Li, Lund Institute of Technology, Sweden
- W1P066: TWO-DIMENSIONAL TEMPERATURE MEASUREMENT OF A GASEOUS FUEL FLAME USING LASER INDUCED PHOSPHORESCENCE WITH YAG:DY
Martin Lawrence, Lionel Ganippa, Brunel University, UK
- W1P067: HIGH RESOLUTION EMISSION SPECTROSCOPY IN 1800–6000 CM⁻¹ FROM ONE DIMENSION LAMINAR CH₄/O₂/N₂ LEAN AND RICH FLAMES
Zhiwei Sun, Zhongshan Li, Bo Zhou, Bo Li, Susan Lindcrantz, Hampus Nilsson, Marcus Aldén, Lund Institute of Technology, Sweden
- W1P068: IN-CYLINDER THERMOMETRY USING LIGS: EVAPORATIVE COOLING EFFECT IN DIRECT INJECTION SI ENGINES
Paul Ewart, Ben Williams, Oxford University, UK
- W1P069: MULTI-SPECIES DETECTION OF COMBUSTION RELEVANT GAS MIXTURES USING MUMAS, MULTI-MODE ABSORPTION SPECTROSCOPY
Paul Ewart, Henry Northern, Alex Thompson, Michelle Hamilton, Oxford University, UK
- W1P070: TWO-DIMENSIONAL VISUALIZATION OF CO₂ FROM CO OXIDATION BY CATALYSTS USING IRLIF
Johan Zetterberg, Sara Blomberg, Johan Gustafson, Zhiwei Sun, Edvin Lundgren, Zhongshan Li, Marcus Aldén, Lund University, Sweden
- W1P071: VAPOUR-PHASE INDIUM SEEDING IN A PREMIXED COMBUSTION STREAM USING TRIMETHYLINDIUM
Ronald Whiddon, Bo Zhou, Jesper Borggren, Zhongshan Li, Lund Institute of Technology, Sweden
- W1P072: MEASUREMENT OF TRANSIENT TEMPERATURE DISTRIBUTION IN A SINGLE-CYLINDER OPTICAL ENGINE USING LASER INDUCED PHOSPHORESCENCE (LIP)
Seong-Ho Jin¹, Shuzhan Bai², Hua Zhao²¹University of Lincoln, UK ²Brunel University, UK
- W1P073: X-RAY SCATTERING STUDIES OF THE FORMATION DYNAMICS OF NANOPARTICLES, PARTICLE PRECURSORS AND SMALLER SPECIES IN AN ETHYLENE FLAME USING VERTICALLY POLARIZED X-RAY RADIATION
Frederik Ossler, Linda Vallenhag, Sophie E. Canton, Lund University, Sweden
- W1P074: DIAGNOSTICS OF INDUSTRIAL PULVERIZED COAL BURNER USING PASSIVE OPTICAL METHODS AND ARTIFICIAL INTELLIGENCE
Andrzej Smolarz, Waldemar Wójcik, Konrad Gromaszek, Lublin University of Technology, Poland
- W1P075: ON AFM PROBING OF NASCENT SOOT STRUCTURE
Sydney Lieb, Hai Wang, University of Southern California, USA
- W1P077: CATALYTIC ACTIVITY OF NATURAL CLAY TOWARD THE COMBUSTION OF BIOFUEL
*Zhen-Yu Tian¹, Tarik Chafik², Mhamed Assebban², Sanae Harti², Naoufal Bahlawane¹, Patrick Mountapmbeme Kouotou¹, Katharina Kohse-Höinghaus¹
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- W1P078: CATALYTIC COMBUSTION OF CO AND PROPENE OVER Co_3O_4 SPINEL PREPARED BY CHEMICAL VAPOR DEPOSITION
Zhen-Yu Tian, Patrick Mountapmbeme Kouotou, Udo Mundloch, Katharina Kohse-Höinghaus, Bielefeld University, Germany
- W1P079: COMPUTATIONAL ANALYSIS OF COMPARATIVE EFFECT OF COMBUSTION RELATED COAL PROPERTIES AND FLAME HYDRODYNAMICS IN BURNER FLAMES
Hookyung Lee, Sangmin Choi, Korea Advanced Institute of Science and Technology, Korea
- W1P080: UNDERSTANDING THE EFFECT OF CO_2 GASIFICATION REACTION AND ITS KINETIC RATE UNDER OXY-PC COMBUSTION ENVIRONMENTS
Daehee Kim¹, Sangmin Choi¹, Manfred Geier², Christopher Shaddix^{2,1} Korea Advanced Institute of Science and Technology, Korea ²Sandia National Laboratories, USA
- W1P081: SOOT FORMATION, NO_x EMISSION AND COMBUSTION EFFICIENCY FOR STAGED PULVERIZED COAL COMBUSTION AT VERY HIGH TEMPERATURE
Masayuki Taniguchi, Yuki Kamikawa, Daisuke Kina, Teruyuki Okazaki, Kenji Yamamoto, Hitachi, Ltd., Japan
- W1P082: INVESTIGATION OF THE APPLICABILITY OF TGA-BASED KINETICS FOR REAL SCALE COAL PARTICLES UNDER HIGH HEATING RATES
Jakub Bibrzycki¹, Andrzej Szlek¹, Roman Weber^{2,1} Silesian University of Technology, Poland ²Clausthal University of Technology, Germany
- W1P083: COMPARISON OF PARTICULATE FORMATION AND ASH DEPOSITION UNDER OXY-FUEL AND CONVENTIONAL PULVERIZED COAL COMBUSTIONS
*Gengda Li¹, Shuiqing Li¹, Ming Dong¹, Qiang Yao¹, Yi Guo², Richard Axelbaum³
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- W1P084: INTRA-PARTICLE NO REDUCTION DURING CHAR OXIDATION OF BIOMASS
Anders Brink, Oskar Karlström, Mikko Hupa, Åbo Akademi University, Finland
- W1P085: EXPERIMENTAL STUDY OF BIOMASS PARTICLE COMBUSTION
*Maryam Momenikouchaksaraei¹, Søren Knudsen Kær¹, Chungun Yin¹, Peter Arendt Jensen², Peter Glarborg², Troels Bruun Hansen²
¹Aalborg University, Denmark ²Technical University of Denmark, Denmark*
- W1P086: EXPERIMENTAL AND NUMERICAL STUDY OF THE PHYSICAL-CHEMICAL PROCESSES INVOLVED IN COAL COMBUSTION UNDER OXYGEN ENRICHED ENVIRONMENTS
Romain Lemaire, Cyril Bruhier, Hamza Kouichi, Sébastien Menanteau, Ecole des Mines de Douai, France
- W1P087: KINETICS OF CO_2 GASIFICATION FOR COALS OF DIFFERENT RANKS UNDER OXY-COMBUSTION CONDITIONS
Cristina Gonzalo-Tirado, Santiago Jiménez, Javier Ballester, University of Zaragoza, Spain
- W1P088: INFLUENCE OF THE CO BOUNDARY LAYER CHEMISTRY ON CHAR CONVERSION UNDER CONVENTIONAL AND OXY-FUEL CONDITIONS
Cristina Gonzalo-Tirado¹, Santiago Jiménez¹, Robert Johansson², Javier Ballester¹ ¹University of Zaragoza, Spain ²Chalmers University of Technology, Sweden
- W1P089: PULVERIZED COAL COMBUSTION MODELING WITH OPENFOAM SOFTWARE
Slawomir Sladek, Ryszard Wilk, Gabriel Wecel, Silesian University of Technology, Poland
- W1P090: EXPERIMENTAL STUDY ON IRON MICRO POWDERS AUTO-IGNITION IN RAPIDLY COMPRESSED OXYGEN
Vladimir Leschevich, Oleg Penyazkov, National Academy of Sciences, Belarus
- W1P091: NUMERICAL MODELLING OF PULVERIZED COAL COMBUSTION FOR A CLEANER CEMENT PRODUCTION
Hrvoje Mikulcic¹, Eberhard von Berg², Milan Vujanovic¹, Peter Priesching², Reinhard Tatschl², Neven Duic^{1,1} University of Zagreb, Croatia ²AVL-AST, Croatia
- W1P092: HETEROGENEOUS KINETICS FOR ALUMINUM COMBUSTION
Julien Glorian¹, Laurent Catoire², Stany Gallier³, Nathalie Cesco^{1,1} CNES-Paris, France ²ENSTA-Paristech, France ³SAFRAN-SME, France
- W1P093: CONDITIONAL MOMENT CLOSURE FOR MODELLING OF COMBUSTION OF POROUS MATERIALS
*Dmitry Saulov¹, M.J. Cleary², D.A. Klimenko¹, M. Abdel-Jawad³, I.G. Vladimirov⁴, K. Hooman¹, V. Rudolph⁹, A.Y. Klimenko¹
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- W1P094: ON-LINE CHARACTERIZATION OF TECHNICAL-SCALE FIXED BED PYROLYSIS
Alba Dieguez-Alonso, Andres Anca-Couce, Nico Zobel, Frank Behrendt, Berlin Institute of Technology, Germany
- W1P095: DEVELOPMENT OF AN IMPROVED NATURAL DRAFT BIOMASS GASIFIER COOKSTOVE
Jessica Tryner, Anthony Marchese, Bryan Willson, Colorado State University, USA
- W1P096: POROUS OXIDE PARTICLES PREPARED BY FLAME SPRAY PYROLYSIS
Kazuki Tsukuda, Toshihisa Ueda, Takeshi Yokomori, Keio University, Japan

- W1P097: Y-AL NANO-COMPOSITE OXIDE PHOSPHORS PREPARED BY GAS PHASE COMBUSTION SYNTHESIS METHOD WITH VAPOR PRECURSORS
Mitsunori Motomura, Masaru Matsuda, Toshihisa Ueda, Takeshi Yokomori, Keio University, Japan
- W1P098: NUMERICAL ANALYSIS OF THE PRODUCTION OF TiO₂ NANOPARTICLES IN CH₄/O₂ DIFFUSION FLAMES: EFFECT OF FLOW AND BURNER CONFIGURATION
Thirumalesha Chittipotula, Gabr Janiga, Dominique Thevenin, University Of Magdeburg, Germany
- W1P099: ONE-STEP SYNTHESIS OF CONDUCTIVE COPPER-BASED METAL-ORGANIC FRAMEWORK/GRAPHENE-LIKE COMPOSITES
Michel Alfe¹, Valentina Gargiulo¹, Luciana Lisi¹, Roberto di Capua²¹IRC-CNR-Italy ²Spin-CNR, Italy
- W1P100: AN INVESTIGATION OF THE INFLUENCE OF ALH₃ ON ENERGETIC PARAMETERS OF COMPOSITE PROPELLANTS
Andrzej Papliński, Military University of Technology, Poland
- W1P101: REDUCING AMMONIUM PERCHLORATE AGGLOMERATION RATE USING ACTIVATED CHARCOAL
Ishitha Kumar, P.A. Ramakrishna, Indian Institute of Technology Madras, India
- W1P102: ONLINE TIME-OF-FLIGHT MASS SPECTROMETRY FOR PROCESS CHARACTERIZATION OF SILICON-CARBIDE GROWTH IN A HIGH TEMPERATURE CHEMICAL VAPOR DEPOSITION REACTOR
Erdal Akyildiz, University of Duisburg, Germany
- W1P103: THEORETICAL ANALYSIS OF THE BURNING OF A LOW-VOLATILITY LIQUID FUEL IN A LOW-POROSITY MEDIUM
Max Endo Kokubun, Fernando Fachini, Instituto Nacional de Pesquisas Espaciais, Brazil
- W1P104: EFFECTS OF HIGH MAGNETIC FIELD PRETREATMENT ON THE PROPERTIES OF PULVERIZED COALS COMBUSTION
Pei Fang Fu, Q. Wang, Z.C. Xia, H.C. Zhou, Huazhong University of Science and Technology, China
- W1P105: MODELLING PYROLYSIS AND GASIFICATION OF THICK BIOMASS PARTICLES
*Kamil Kwiatkowski¹, Wojciech Gryglas², Jakub Korotko², Pawel Zuk¹, Marek Dudyński³, Konrad Bajer¹
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- W1P106: INTRINSIC REACTION KINETICS OF CO₂ GASIFICATION FOR SUB-BITUMINOUS COAL CHAR AT ELEVATED PRESSURE BY DIRECT MEASUREMENT OF PARTICLE TEMPERATURE
Ryanggyoon Kim¹, Dongfang Lee¹, Ho Lim¹, Thomas Fletcher², Cheoloo Kim³, Chunghwan Jeon¹¹Pusan National University, Korea ²Brigham Young University, USA ³GS E&C, Korea
- W1P107: MODELING COMBUSTION AND GASIFICATION OF SINGLE POROUS CHAR PARTICLES
Simcha Singer, Massachusetts Institute of Technology, USA
- W1P108: A SOPHISTICATED MODEL TO PREDICT THE ASH INHIBITION DURING COMBUSTION OF PULVERIZED CHAR PARTICLES
Christopher R. Shaddix¹, Yanqing Niu²¹Sandia National Laboratories, USA ²Xi'an Jiaotong University, China
- W1P109: CHAR CONSUMPTION KINETICS DURING OXY-COMBUSTION OF PULVERIZED COAL: AN EXTENDED SINGLE-FILM MODEL FOR UTILIZATION IN CFD CODES
Christopher R. Shaddix, Manfred Geier, Sandia National Laboratories, USA
- W1P110: FLAME SYNTHESIS OF METAL NANOPARTICLES
Gianluigi De Falco¹, Mario Commodo², Patrizia Minutolo², Andrea D'Anna¹¹University Federico II of Naples, Italy ²IRC-CNR, Italy
- W1P111: CHARACTERISTICS OF BIOMASS FUELS AND THEIR IMPACT ON VOLATILE FLAME LENGTH DURING BIOMASS COFIRING COMBUSTION
Melissa Holtmeyer¹, Gengda Li², Benjamin Kumfer¹, Shuiqing Li², Richard Axelbaum¹¹Washington University in St Louis, USA ²Tsinghua University, China
- W1P112: PREDICTION OF THAR COAL COMBUSTION CHARACTERISTICS USING ARTIFICIAL NEURAL NETWORK
Muhammad Tayyeb Javed, Muhammad Kashif, Asifullah Khan, Abdul Majid, PIEAS, Pakistan
- W1P113: COMBUSTION ENVIRONMENT CONTROL FOR BETTER PRODUCTIVITY IN IRON ORE SINTERING PROCESS
*Younghun Lee¹, Sangmin Choi¹, Won Yang², Byungkook Cho³
¹Korea Advanced Institute of Science and Technology, Korea ²Korea Institute of Industrial Technology, Korea ³POSCO, Korea*
- W1P114: FLAME BEHAVIORS AND STABILITY ON VERTICAL AND RADIAL HORIZONTAL JET DIFFUSION FLAME OF LOW CALORIE BIOMASS GAS
Takamitsu Yoshimoto¹, Shoji Asada²¹Kobe City College of Technology, Japan ²Konan Women's University, Japan
- W1P115: DEVELOPMENT OF A KILN-TYPE GASIFICATION AND ASH MELTING FURNACE IN A MSW INCINERATION PLANTS BY USING NUMERICAL SIMULATION
Teruyuki Okazaki¹, Tsuyoshi Shibata¹, Yasuji Kusabe¹, Nobuyuki Oshima²¹Hitachi, Ltd., Japan ²Hokkaido University, Japan

- W1P116: ANALYSIS OF COMBUSTION OF BIOMASS FUELS AND SEWAGE SLUDGE BY THERMOGRAVIMETRY
Aneta Magdziarz, Malgorzata Wilk, AGH University of Science and Technology Krakow, Poland
- W1P117: COMBUSTION OF GAS FUEL WITH THE ADDITION OF OXYGEN CARRIER
Malgorzata Wilk, AGH University of Science and Technology Krakow, Poland
- W1P118: EFFECT OF COAL FLY ASH ADDITION ON AEROSOL FORMATION IN A 800 MWTH BIOMASS SUSPENSION-FIRING POWER PLANT
Hao Wu¹, Anne J. Damø¹, Flemming J. Frandsen¹, Peter Glarborg¹, Bo Sander²¹Technical University of Denmark, Denmark²DONG Energy A/S, Denmark
- W1P119: DEVELOPMENT OF A SOLID BIOMASS-FUELLED BOILER FOR COGENERATION
Marie Creyx¹, Eric Delacourt¹, Celine Morin¹, Bernard Desmet¹, Philippe Peultier²¹Laboratory TEMPO, France²Enerbiom, France
- W1P120: PLASTIC WASTE APPLICATION IN THERMAL INDUSTRIAL PROCESSES
Monika Kuznia, Aneta Magdziarz, AGH University of Science and Technology Krakow, Poland
- W1P121: INTEGRATED SYSTEM FOR ENERGY PRODUCTION, CARBON CREDITS SELLING AND SAND LIME BRICKS FROM BIOMASS AND COAL CO-COMBUSTION WITH LIMESTONE ADDITION ON FLUIDIZED COMBUSTION
Gabriel Faé Gomes, Leandro Dalla Zen, CIENTEC, Brazil
- W1P122: NUMERICAL SIMULATION OF PULVERIZED COAL COMBUSTION PROCESSES IN A PROTOTYPE DUAL-NOZZLE VORTEX FURNACE
Denis Krasinsky¹, Vladimir V. Salomatov^{1,2}¹Siberian Branch of Russian Academy of Sciences, Russia²Novosibirsk State University, Russia
- W1P123: EFFECT OF OXYGEN CONTENT ON SOOT FORMATION DURING WOOD COMBUSTION
Gang Xiong, Shuiqing Li, Qiang Song, Qiang Yao, Tsinghua University, China
- W1P124: NUMERICAL AND EXPERIMENTAL INVESTIGATIONS ON OXY-FUEL COMBUSTION IN GLASS MELTING FURNACES
Jörg Leicher, Anne Giese, Gas-und Wärme-Institut Essen e.V., Germany
- W1P125: STUDY OF SODIUM AND POTASSIUM RELEASE DURING SOLID FUEL COMBUSTION USING LASER-INDUCED BREAKDOWN SPECTROSCOPY: EFFECTS OF TEMPERATURE AND PARTICLE SIZE
Yong He¹, Jijian Zhu¹, Bo Li¹, Zhongshan Li¹, Zhihua Wang², Kefa Cen², Marcus Aldén¹¹Lund University, Sweden²Zhejiang University, China
- W1P126: EXPERIMENTAL AND NUMERICAL RESEARCH OF WATER-FUEL EMULSIONS COMBUSTION PROCESS
Marian Gieras¹, Marcin Dutka²¹University of Warsaw, Poland²Warsaw University of Technology, Poland
- W1P127: UNEXPECTED OBSERVATIONS DURING LABORATORY EXPERIMENTS RELEVANT TO FBC PROCESSES
Stanislaw Kandefer¹, Malgorzata Pilawska¹, Guangxi Yue², Elzbieta M. Bulewicz¹¹Cracow University of Technology, Poland²Tsinghua University, China
- W1P128: A COMPARATIVE STUDY OF LARGE EDDY SIMULATIONS OF A PULVERISED COAL JET FLAME
*Oliver Stein¹, Gregor Olenik¹, Andreas Kronenburg¹, Fabrizio Cavallo Marincola², Benjamin Mario Franchetti², Andreas Markus Kempf³, Marco Ghiani³, Michelle Vascellari³, Christian Hasse³
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- W1P129: LARGE EDDY SIMULATION OF FLAMELESS COMBUSTION USING TABULATED COMBUSTION AND NO_x MODELS
Olivier Colin, Carlo Locci, Jean-Baptiste Michel, IFP Energies, France
- W1P130: EXPERIMENTAL AND NUMERICAL MODELLING OF TURBULENT FLOW IN A DUAL-NOZZLE VORTEX FURNACE
*Denis Krasinsky¹, Yury A. Anikin^{1,2}, Igor S. Anufriev¹, Vladimir V. Salomatov¹, Oleg V. Sharypov¹
¹Siberian Branch of Russian Academy of Sciences, Russia²Novosibirsk State University, Russia*
- W1P131: DETAILED RESEARCH ON NO_x FORMATION FROM RICH-LEAN TYPE AIRCRAFT COMBUSTOR UNDER HIGH-TEMPERATURE AND PRESSURE CONDITIONS
Mitsumasa Makida, Hideshi Yamada, Kazuo Shimodaira, Japan Aerospace Exploration Agency, Japan
- W1P132: COMBUSTION OF DISTILLERY WASTE IN UTILITY BOILERS
Vivek Asthana, KANPUR, India
- W1P133: COMBUSTION AND NO_x REDUCTION CHARACTERISTICS THROUGH SYNGAS REBURNING
Tae Young Chae, Ik Hwan Na, Won Yang, Ki Seop Kang, Jae Wook Lee, Korea Institute of Industrial Technology, Korea

- W1P134: A NUMERICAL STUDY ON COMBUSTION CHARACTERISTICS FOR VARIOUS CONFIGURATIONS OF PULVERIZED COAL BURNER
Tae Young Chae¹, Won Yang¹, Changkook Ryu²¹Korea Institute of Industrial Technology, Korea²Sungkyunkwan University, Korea
- W1P135: A STUDY ON CATALYTIC PYROLYSIS AND COMBUSTION CHARACTERISTICS OF TURKISH LIGNITE AND CO-PROCESSING EFFECTS WITH BIOMASS UNDER OXY-FUEL CONDITIONS
Ehsan Abbasi Atibeh, Ahmet Yozgatligl, Middle East Technical University, Turkey
- W1P136: THE EFFECT OF LIGNITE FLY ASH ADDITION ON CHLORINE CORROSION DUE TO BIOMASS COMBUSTION IN BOILERS
Włodzimierz Kordylewski, Tomasz Hardy, Krzysztof Mościcki, Wrocław University of Technology, Poland
- W1P137: A TUBULAR FLAME BURNER FOR A 1 kW STIRLING ENGINE
*Satoru Ishizuka¹, Yuki Kakehashi¹, Daisuke Shimokuri¹, Fumio Toki², Youichi Murata², Masamichi Saito³
¹Hiroshima University, Japan²Katsura Co., Ltd., Japan³Pro-Materials Co., Ltd., Japan*
- W1P138: THREE-DIMENSIONAL FIXED BED BIOMASS COMBUSTION MODELLING OF A COMMERCIAL BOILER
Enrique Granada, Comesaña Roberto, Porteiro Jacobo, Patiño David, University of Vigo, Spain
- W1P139: FROM FEATHERS TO SYNGAS—INDUSTRIAL GASIFICATION PLANT
*Kamil Kwiatkowski¹, Marek Dudyński, Jan Krzysztoforski³, Konrad Bajer¹
¹University of Warsaw, Poland²Modern Technologies and Filtration Sp. z o.o., Poland³Warsaw University of Technology, Poland*
- W1P140: CU OXIDATION KINETICS IN A CHEMICAL LOOPING COMBUSTION SYSTEM
Eli A. Goldstein, Reginald E. Mitchell, Stanford University, USA
- W1P141: EXPERIMENTAL INVESTIGATION OF BURNING RATES AND SURFACE AREA EVOLUTION DURING THE OXY-COMBUSTION OF PULVERIZED COAL CHAR
JoAnn S. Lighty¹, Ethan S. Hecht¹, Christopher R. Shaddix²¹University of Utah, USA²Sandia National Laboratories, USA
- W1P142: REDUCTION OF NO_x IN COKE FURNACES BY FLUE GAS RECIRCULATION AND AIR STAGING
*Adam Klimanek¹, Andrzej Szlęk, Wiktor Hummer², Grzegorz Wojciechowski², Anna Ziórkowska-Talar²
¹Silesian University of Technology, Poland²Koksoprojekt Spółka. z o.o., Poland*
- W1P143: PRELIMINARY ASSESSMENT OF THE GREENHOUSE GAS EMISSIONS DURING CAPTURING AND FLARING THE LANDFILL GASSES FROM THE SOLID WASTE LANDFILLS IN BULGARIA
Ivaylo Ganev, Iliyana Naydenova, Technical University of Sofia, Bulgaria

TUESDAY - WORK-IN-PROGRESS POSTERS

- W2P001: PERFORMANCE AND EXHAUST EMISSIONS OF DIESEL ENGINE OPERATING ON METHYL AND ETHYL ESTERS FROM WASTE EDIBLE OILS
Takaaki Morimune, Shonan Institute of Technology, Japan
- W2P002: THE PERFORMANCE AND EMISSIONS OF GASOLINE/ETHANOL ENGINE
Takaaki Morimune, Shonan Institute of Technology, Japan
- W2P003: LOW TEMPERATURE COMBUSTION CONCEPTS: FULL METAL AND OPTICAL ENGINE EXPERIMENTS COMPARED
Cornelis Leermakers, L.M.T. Somers, N.J. Dam, B.H. Johansson, L.P.H. de Goey, Eindhoven University of Technology, The Netherlands
- W2P004: NUMERICAL SIMULATION OF TURBULENT DILUTED NON HOMOGENEOUS FLAME PROPAGATION IN A CLOSED VESSEL
Catherine Gruselle¹, Yves D'Angelo¹, Vincent Moureau¹, Frederic Rave²¹CORIA-CNRS, France²Renault, France
- W2P005: EXPERIMENTAL AND COMPUTATIONAL STUDY OF A MICRO-TURBINE ENGINE COMBUSTOR
Marian Gieras¹, Tomasz Stankowski², Dawid Slesik²¹University of Warsaw, Poland²Warsaw University of Technology, Poland
- W2P006: OBJECTIVE MEASURES OF CYCLIC VARIABILITY AND FLOW COMPARISON FOR RECIPROCATING IC ENGINES USING THE PROPER ORTHOGONAL DECOMPOSITION
David Reuss¹, Volker Sick¹, Hao Chen²¹University of Michigan, USA²Shanghai Jiao Tong University, China
- W2P007: A TRANSFER FUNCTION/POD METHODOLOGY IN LARGE EDDY SIMULATION FOR THE DYNAMIC RESPONSE OF SWIRL STABILIZED TURBULENT FLAMES
Fernando Biagioli, Franklin Genin, Stefano Bernero, Khawar Syed, Alstom, Switzerland
- W2P008: COMPARISON OF THE SIMULATED METHANE GAS COMBUSTION OF AN IC ENGINE BY EMPLOYING A ZONAL CYLINDER MODEL AND A NUMERICAL CRFD-CALCULATION
Ansgar Ratzke, Christoph Hennecke, Friedrich Dinkelacker, Institute of Technical Combustion, Germany
- W2P009: GRID DEPENDENCY ON NUMERICAL SIMULATION OF GAS-TURBINE COMBUSTOR
Yuta Hamada¹, Nobuyuki Oshima¹, Yoshiharu Nonaka², Kohshi Hirano²¹Hokkaido University, Japan²Kawasaki Heavy Industries, LTD., Japan
- W2P010: A STUDY OF EMISSION REDUCTION BY USING BLEND FUELS FOR SMALL DIESEL ENGINE
Tadashige Kawakami, Hosei University, Japan
- W2P011: SPECTROSCOPIC ANALYSIS OF PREMIXED MIXTURE IGNITION IN THE END-GAS REGION (PREMIER) COMBUSTION IN A DUAL-FUEL ENGINE
Nobuyuki Kawahara, Eiji Tomita¹, Yuta Sunad¹, Mamoru Kondo²¹Okayama University, Japan²Mitsui Engineering & Shipbuilding, Japan
- W2P012: TIME-SERIES MEASUREMENT OF CO₂ CONCENTRATION INSIDE AN ENGINE CYLINDER USING INFRARED ABSORPTION METHOD
Nobuyuki Kawahara, Eiji Tomita, Masato Yagi, Okayama University, Japan
- W2P013: EFFECTS OF ANGLED INJECTION ON THE COMBUSTION PERFORMANCE IN THE AFTERBURNER OF THE PCTJ
George Ianus¹, Shunsuke Nishida¹, Shounosuke Kita¹, Shinji Nakaya¹, Mitsuhiro Tsue¹, Hideyuki Taguchi²¹The University of Tokyo, Japan²Japan Aerospace Exploration Agency, Japan
- W2P014: DETERMINATION OF THE SELF-IGNITION DELAY FOR DIFFERENT TYPES OF DIESEL FUELS
Ireneusz Pielecha, Krzysztof Wislocki, Jakub Czajka, Dmytro Maslennikov, Poznan University of Technology, Poland
- W2P015: PERFORMANCE OF A GAS TURBINE COGENERATION WITH INLET AIR-COOLING USING ABSORPTION-REFRIGERATION POWERED BY EXHAUST GAS
Ala Jaber, LTT, Germany
- W2P016: CFD EVALUATION OF DIFFERENT INJECTION MODES IN GDI-SI ENGINE
Valeri Golovitchev¹, Abdurrahman Imren¹, Roy Ogink²¹Chalmers University of Technology, Sweden²Volvo Personvagnar AB, Sweden
- W2P017: MODELLING MEAN REPRESENTATIVE MIXING TIME FOR DIESEL ENGINE COMBUSTION SIMULATION
Michal Pasternak, Fabian Mauss, Brandenburg University of Technology, Germany
- W2P018: CHARACTERIZATION OF HOMOGENEOUS CHARGE COMPRESSION IGNITION PERFORMANCE OF BIO-ALCOHOL/FAME AND BIO-ALCOHOL/ALKANE BLENDS
Marc Baumgardner, Anthony Marchese, Colorado State University, USA
- W2P019: EFFECT OF SPRAY ON LASER-INDUCED BREAKDOWN CHARACTERISTICS
Yasuhiro Hisatomi, Takehiko Seo, Masato Mikami, Yamaguchi University, Japan

- W2P020: RAPID COMPRESSION MACHINE STUDIES ON *N*-HEPTANE HCCI COMBUSTION WITH USING DIRECTLY INJECTED HYDROGEN AS AN ADDITIVE
Jinhwa Chung, Seunghyeon Lee, Jaehyuk Yoon, Soonho Song, Kwang Min Chun, Yonsei University, Korea
- W2P021: LARGE EDDY SIMULATION OF FUEL SPRAYS IN INTERNAL COMBUSTION ENGINES
Lei Zhou¹, Kai-Hong Luo², Shi-Jin Shuai¹, Mao-Zhao Xie³, Ming Jia³
¹*Tsinghua University, China* ²*University of Southampton, UK* ³*Dalian University of Technology, China*
- W2P022: NUMERICAL SIMULATION OF A DIRECT-INJECTION GASOLINE ENGINE
Irenaeus Wlokas, Peter Janas, Sebastian Kaiser, Christof Schulz, Andreas Kempf, University of Duisburg-Essen, Germany
- W2P024: ANALYSIS OF COMBUSTION IN HCCI ENGINES
Gökhan Coskun, Hakan Serhad Soyhan, Usame Demir, Ekrem Buyukkaya, Fethi Halici, Sakarya University, Turkey
- W2P025: NUMERICAL STUDY OF THE EFFECT OF NITROGEN MONOXIDE ON IGNITION DELAY OF *ISO*-OCTANE
Francesco Contino¹, Fabrice Foucher¹, Philippe Dagaut², Tommaso Lucchini³, Christine Mounaïm-Rousselle¹
¹*Université d'Orléans, France* ²*ICARE-CNRS, France* ³*Politecnico di Milano, Italy*
- W2P026: EXPERIMENTAL CHARACTERIZATION OF METHYL, ETHYL, BUTYL AND PENTYL VALERATE IN AN HCCI ENGINE
Francesco Contino¹, Fabrice Foucher¹, Fabien Halter¹, Philippe Dagaut², Guillaume Dayma², Christine Mounaïm-Rousselle²
¹*Université d'Orléans, France* ²*ICARE-CNRS, France*
- W2P027: SHOCK-TUBE STUDY OF A COAL-DERIVED SYNGAS MIXTURE WITH AND WITHOUT IMPURITIES
Olivier Mathieu, Eric Petersen, Texas A&M University, USA
- W2P028: LAMINAR BURNING VELOCITY OF GASOLINES WITH ADDITION OF ETHANOL
Pierre-Alexandre Glaude¹, Olivier Herbinet¹, Patricia Dirrenberger¹, Roda Bounaceur¹, Hervé Le Gall¹, Antonio Pires da Cruz², Alexander Konnov³, Frédérique Battin-Leclerc¹
¹*LRGP-CNRS, France* ²*IFP Energies nouvelles, France* ³*Lund University, Sweden*
- W2P029: NUMERICAL AND EXPERIMENTAL INVESTIGATION OF DME, FISCHER-TROPSCH FUEL AND DIESEL IN DICI ENGINE ON NEDC
Azhar Malik¹, Terese Lövås¹, Claus Nielsen², Jesper Schramm² ¹*Norwegian University of Science and Technology, Norway* ²*Technical University of Denmark, Denmark*
- W2P030: AUTOIGNITION STUDY OF THE IMPACT OF WATER ADDITION TO ETHANOL AND PROPANOL
Alan Kéromnès¹, Sanisah Saharin¹, Benoite Lefort¹, Henry J. Curran², Luis Le Moyne¹ ¹*University of Burgundy, France*, ²*National University of Ireland, Ireland*
- W2P031: IMPACT OF DEFECTS AND DAMAGES IN THE COMBUSTION CHAMBER OF AIR TURBINE ENGINES TO THE EXHAUST GAS JET
Christoph Hennecke, Friedrich Dinkelacker, Universität Hannover, Germany
- W2P032: VISUALIZATION OF IN-CYLINDER PRESSURE WAVES IN HCCI COMBUSTION USING HIGH-SPEED VIDEO ANALYSIS
Mats Andersson, Daniel Dahl, Ingemar Denbratt, Chalmers University of Technology, Sweden
- W2P033: DIFFUSION COMBUSTION CHARACTERISTICS OF CO/H₂/N₂ FUELS
Chong Feng, Haiying Qi, Junzong Zhu, Dapeng Bi, Tsinghua University, China
- W2P034: HCCI BIOMASS GAS COMBUSTION PHASING—H₂:CO FUELLING EFFECTS
Andrzej Sobiesiak, Dale Haggith, University of Windsor, Canada
- W2P035: IN-CYLINDER COMBUSTION TEMPERATURE MEASUREMENTS USING ALKALI METAL FUEL ADDITIVES
Michael Mosburger¹, Volker Sick¹, Michael Drake² ¹*University of Michigan, USA* ²*General Motors Research & Development Center, USA*
- W2P036: THREE-DIMENSIONAL TURBULENT FLAME PROPAGATION MODELLING COUPLED TO A ZERO-DIMENSIONAL STOCHASTIC REACTOR MODEL FOR IN-CYLINDER SI SIMULATIONS
Simon Bjerkborn¹, Karin Fröjd¹, Cathleen Perlman¹, Fabian Mauss² ¹*Loge AB, Sweden* ²*Brandenburg University of Technology, Germany*
- W2P037: PHASE-INVARIANT PROPER ORTHOGONAL DECOMPOSITION ANALYSIS OF COMBINED HIGH-SPEED PIV AND LES DATA FOR A MOTORED IC ENGINE
Volker Sick¹, Preeti Abraham¹, Philipp Schiffmann¹, David Reuss¹, Kai Liu², Dan Haworth² ¹*University of Michigan, USA* ²*Penn State University, USA*
- W2P038: BOUNDARY LAYER FLOW STRUCTURE IN A MOTORED INTERNAL COMBUSTION ENGINE
Louise Lu¹, Christopher Jainski², Andreas Dreizler², Volker Sick¹ ¹*University of Michigan, USA* ²*TU Darmstadt, Germany*

- W2P039: MODELING OF MULTI-MODE COMPRESSION IGNITION ENGINE FUELLED WITH VARIETY OF FUELS
Andrzej Sobiesiak, Tuan Anh Nguyen, Biao Zhou, University of Windsor, Canada
- W2P040: MODELING MOLECULAR DIFFUSION OF HYDROCARBONS
Tyler Dillstrom, Paolo Elvati, Angela Violi, University of Michigan, USA
- W2P041: USING PARAMETERISED FINITE COMBUSTION STAGE MODELS TO CHARACTERISE COMBUSTION IN DIESEL ENGINES
Yu Ding¹, Douwe Stapersma², Hugo Grimmelius²¹Harbin Engineering University, China ²Delft University of Technology, The Netherlands
- W2P042: EXPERIMENTAL AND NUMERICAL STUDY ON LAMINAR BURNING VELOCITY OF C₁-C₄ ALKANE FLAMES
Erjiang Hu, Zuohua Huang, Qianqian Li, Xi'an Jiaotong University, China
- W2P043: SYSTEMATIC INVESTIGATION OF SYNGAS BUNSEN FLAME
Jin Fu, Xi'an Jiaotong University, China
- W2P044: ONSET OF CELLULAR FLAME INSTABILITY IN ADIABATIC CH₄/O₂/CO₂ AND CH₄/AIR LAMINAR PREMIXED FLAMES STABILIZED ON A FLAT-FLAME BURNER
Jiangfei Yu, Lund Institute of Technology, Sweden
- W2P045: NUMERICAL ANALYSIS OF FLAME BEHAVIOUR DURING THE PASSAGE THROUGH A SUDDEN CONTRACTION IN TUBES OF VARIOUS DIAMETERS
Artur Gutkowski, Technical University of Lodz, Poland
- W2P046: CHARACTERISTICS OF RICH AND LEAN FLAMES ESTABLISHED IN MULTILAYER OF AIR RATIOS
Katsuo Asato, Gifu University, Japan
- W2P047: MEASUREMENT OF LAMINAR BURNING VELOCITY FOR PROPANE/CO₂/N₂ AIR MIXTURES AT ELEVATED TEMPERATURES
Akram Mohammad¹, Sudarshan Kumar¹, Ratna Kishore²¹Indian Institute of Technology Bombay, India ²Amrita Vishwa Vidyapeetham, India
- W2P048: ERRORS DUE TO BUOYANCY IN PREMIXED FLAT FLAME REACTOR EXPERIMENTS
*Claudia Weise, Alessandro Faccinotto, Sebastian Kluge, Tina Kasper, Hartmut Wiggers, Christof Schulz, Ineraeus Wlokas, Andreas Kempf
 University of Duisburg-Essen, Germany*
- W2P049: STUDY OF CELLULAR STRUCTURE OF DOWNWARDS PROPAGATING PREMIXED FLAME IN A COMBUSTION TUBE
Kira Aguilar, Yoshikazu Taniyama, Hiroyuki Ito, Osamu Fujita, Hokkaido University, Japan
- W2P050: NONLINEAR RESPONSE OF PULSED DIFFUSION PROPANE FLAME THROUGH IMAGE PROCESSING TECHNIQUE
Hua Wei Huang, University of Sheffield, UK
- W2P051: STRUCTURE OF THE LAMINAR FLAME FRONT AND COMBUSTION CONSTANTS
Jury Kryzhanovskiy, Research-Kyiv, Russia
- W2P052: LAMINAR NON-PREMIXED FLAMES OF CARBON MONOXIDE/HYDROGEN IN HEATED COFLOW AIR: BLOWOFF AND AUTOIGNITION
*Sangkyu Choi¹, Byungchul Choi², Saeed M. Al-Noman¹, Suk Ho Chung¹
¹University of King Abdullah Science & Technology, Saudi Arabia ²Korean Register of Shipping, Korea*
- W2P053: PREMIXED FLAMES IN NARROW ADIABATIC CHANNELS FOR A CHAIN-BRANCHING KINETICS
Daniel Fernandez-Galisteo, CIEMAT, Spain
- W2P054: EXPERIMENTAL AND NUMERICAL INVESTIGATION OF LAMINAR BURNING VELOCITY OF ETHANE/AIR GASEOUS MIXTURES OF VARIABLE INITIAL COMPOSITION, TEMPERATURE AND PRESSURE
Venera Giurcan, Domnina Razus, Maria Mitu, Codina Movileanu, Dumitru Oancea, Institute of Physical Chemistry, Hungary
- W2P055: LIMITING OXYGEN CONCENTRATION AND MINIMUM INERT CONCENTRATION OF FUEL/AIR/INERT GASEOUS MIXTURES EVALUATION BY MEANS OF ADIABATIC FLAME TEMPERATURES AND MEASURED FUEL/AIR LOWER FLAMMABILITY LIMITS
Venera Giurcan, Domnina Razus, Maria Mitu, Institute of Physical Chemistry, Hungary
- W2P056: EFFECT OF NITROGEN ADDITION TO LOW-PRESSURE, PREMIXED FLAT ETHANOL FLAMES
*Thomas Bierkandt¹, Tina Kasper¹, Nicole Labbe², Scott Skeen³
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- W2P057: EFFECT OF ETHANOL ADDITION IN A RICH PREMIXED BENZENE FLAME
Véronique Dias, Hervé Jeanmart, Université catholique de Louvain, Belgium
- W2P058: COMBUSTION CHEMISTRY STUDY OF FURAN IN LAMINAR PREMIXED LOW-PRESSURE FLAMES USING MOLECULAR BEAM MASS SPECTROMETRY
Dong Liu¹, Casimir Togbé¹, Luc-Sy Tran², Daniel Felsmann¹, Patrick Oßwald¹, Katharina Kohse-Höinghaus¹
¹Bielefeld University, Germany ²Université de Lorraine, France
- W2P059: THE EFFECT OF CARBON DIOXIDE AND OXYGEN CONCENTRATIONS IN A LAMINAR COFLOW METHANE DIFFUSION FLAME
Yung-Sheng Lien¹, Ho-Chuan Lin¹, Yueh-Heng Li², Yei-Chin Chao¹
¹National Cheng Kung University, Taiwan ²Research Center of Energy Technology and Strategy, Taiwan
- W2P060: EXPERIMENTAL STUDY OF LAMINAR PREMIXED 2,5-DIMETHYLFURAN/OXYGEN/ARGON FLAMES: FORMATION OF POLLUTANTS
Casimir Togbé¹, Dong Liu¹, Luc-Sy Tran², Daniel Felsmann¹, Patrick Oßwald¹, Katharina Kohse-Höinghaus¹
¹Bielefeld University, Germany ²Université de Lorraine, France
- W2P061: NUMERICAL STUDY OF FLAME STRUCTURE AND SOOT INCEPTION INTERPRETED IN CARBON-TO-OXYGEN ATOM RATIO SPACE
Fei Xia, Gregory Yablonsky, Richard Axelbaum, Washington University in St Louis, USA
- W2P062: THE DYNAMICS RESPONSE OF A PREMIXED BUNSEN FLAMES IN FUEL CONCENTRATION OSCILLATION
Abdul Rahman Mohd Rosdzimin, Kenjiro Uemura, Kei Ito, Takeshi Yokomori, Toshihisa Ueda, Keio University, Japan
- W2P063: EFFECT OF CONCAVE SURFACE OF FLOW CHANNEL ON STABILIZATION OF FLAME SPREAD: LOCAL DAMKÖHLER NUMBER BELOW BLOW-OFF LIMIT
Tsuneyoshi Matsuoka, Harunori Nagata, Yuji Nakamura, Hokkaido University, Japan
- W2P064: IGNITION ENHANCEMENT BY HYDROGEN OR DIMETHYL ETHER ADDITION TO METHANE-AIR MIXTURES
Peng Dai, Peking University, China
- W2P065: LOW-TEMPERATURE FLAMES OF DIMETHYL ETHER UNDER HIGHLY DILUTED ATMOSPHERIC-PRESSURE CONDITIONS
Kai Moshammer¹, Daniel Mayer², Kuiwen Zhang³, Patrick Oßwald¹, Heinz Pitsch², Katharina Kohse-Höinghaus¹
¹Bielefeld University, Germany ²RWTH-Aachen University, Germany ³University of Science and Technology of China, China
- W2P066: STUDY OF THE STRUCTURE OF LAMINAR PREMIXED FLAMES OF METHYL FURAN/OXYGEN/ARGON USING MOLECULAR-BEAM MASS SPECTROMETRY
Luc-Sy Tran¹, Casimir Togbé², Dong Liu², Daniel Felsmann², Patrick Oßwald², Pierre-Alexandre Glaude¹, Frederique Battin-Leclerc¹, Katharina Kohse-Höinghaus²
¹CNRS, France ²Bielefeld University, Germany
- W2P067: EXPERIMENTAL ASSESSMENT OF THE CONDUCTIVE HEAT LOSSES FROM THE BASE OF THE STABILIZED INVERTED FLAME TO THE FLAME HOLDER
Yuriy Shoshin, Eindhoven University of Technology, The Netherlands
- W2P068: EFFECTIVE LEWIS NUMBER FORMULATIONS FOR LEAN HYDROGEN/HYDROCARBON/AIR MIXTURES
Nicolas Bouvet¹, Fabien Halter², Christian Chauveau³, Youngbin Yoon¹ ¹Seoul National University, Korea ²Université d'Orléans, France ³ICARE/CNRS, France
- W2P069: STUDY OF PREMIXED METHYL PENTANOATE FLAMES STRUCTURE AND CHEMICAL KINETIC MECHANISM AT LOW PRESSURE USING SYNCHROTRON PHOTOIONIZATION MASS SPECTROMETRY AND COMPUTER SIMULATION
Sergey Yakimov¹, Denis Knyazkov¹, Tatiana Bolshova¹, Andrey Shmakov¹, Oleg Korobeinichev¹, Nils Hansen², Charles Westbrook³
¹Institute of Chemical Kinetics and Combustion, Russia ²Sandia National Laboratories, USA ³Lawrence Livermore National Laboratory, USA
- W2P070: BLOW-OFF CHARACTERISTICS OF CO-FLOW LEAN PREMIXED FLAMES STABILIZED BY A STRATIFIED PREMIXED CONCEPT
Wonnam Lee¹, Taekook Ahn¹, Younwoo Nam² ¹Dankook University, Korea ²Korean Register of Shipping, Korea
- W2P071: DILUTION EFFECTS ANALYSIS OF OPPOSED-JET SYNGAS DIFFUSION FLAMES
Hsin-Yi Shih, Jou-Rong Hsu, Chung Gung University, Taiwan
- W2P072: EXPERIMENTAL AND CHEMICAL KINETIC SIMULATION STUDY OF STRUCTURE AND BURNING VELOCITY OF METHYL PENTANOATE FLAMES AT ATMOSPHERIC PRESSURE
Ilya Gerasimov¹, Denis Knyazkov¹, Andrey Shmakov¹, Tatiana Bolshova¹, Sergey Yakimov¹, Nils Hansen², Charles Westbrook³
¹Institute of Chemical Kinetics and Combustion, Russia ²Sandia National Laboratories, USA ³Lawrence Livermore National Laboratory, USA
- W2P073: DYNAMICS OF PREMIXED BUNSEN FLAME UNDER PERIODIC FUEL CONCENTRATION OSCILLATION
Kei Ito, Kenjiro Uemura, Abdul Rahman Mohd Rosdzimin, Takeshi Yokomori, Keio University, Japan

- W2P074: EXTINCTION OF STAGNATING PREMIXED FLAME BY THE VERTICALLY IMPINGING VORTEX TUBE
Akihiro Tanaka, Kazuki Sugimoto, Takeshi Yokomori, Toshihisa Ueda, Keio University, Japan
- W2P075: INVESTIGATION OF THE COMBUSTION CHEMISTRY OF 2-METHYLTETRAHYDROFURAN
*Kai Moshhammer¹, Harish K. Chakravarty², Nils Hansen³, Ravi X. Fernandez², Katharina Kohse-Höinghaus¹
¹Bielefeld University, Germany ²RWTH-Aachen University, Germany ³Sandia National Laboratories, USA*
- W2P076: AN ITERATIVE METHOD TO DETERMINE THE MASS BURNING RATE OF STRONGLY STRETCHED FLAMES
Akshay Iyer, Jeroen van Oijen, Jan ten Thijsse Boonkcamp, Philip de Goeij, Eindhoven University of Technology, The Netherlands
- W2P077: LAMINAR FLAME SPEEDS OF PENTANOL ISOMERS-AIR MIXTURES
Qianqian Li, Xi'an Jiaotong University, China
- W2P078: STABILITY ANALYSIS OF PREMIXED COMBUSTION WAVES IN MODELS WITH TWO STEP CHAIN BRANCHING KINETICS
Vladimir Gubernov, Russian Academy of Sciences, Russia
- W2P079: EXPERIMENTAL AND NUMERICAL INVESTIGATION OF THE FLAME RESPONSE TO FUEL CONCENTRATION OSCILLATION IN THE LAMINAR STAGNATION PREMIXED FLAME
Tatsuya Hagita, Abdul Rahman Mohd Rosdzimin, Takeshi Yokomori, Toshihisa Ueda, Keio University, Japan
- W2P080: EFFECTIVE EXTINCTION TRIGGERS OF LEAN PREMIXED AND DIFFUSION COMBINED FLAMES
Takayuki Kawanami¹, Ikuyo Makino², Yuji Yahagi¹¹Shibaura Institute of Technology, Japan ²Tohoku University, Japan
- W2P081: INVESTIGATION OF THE DETAILED COMBUSTION CHEMISTRY OF THE BUTENE ISOMERS
*Marina Schenk¹, Larisa Leon², Patrick Oßwald¹, Kai Moshhammer¹, Katharina Kohse-Höinghaus¹, Thomas Zeuch³, Lars Seidel², Fabian Mauss²
¹Bielefeld University, Germany ²Brandenburg University of Technology, Germany ³Institute Physical Chemistry Goettingen, Germany*
- W2P082: EFFECTS OF DIFFERENTIAL DIFFUSION IN A LAMINAR HYDROGEN-AIR DIFFUSION FLAME
Georgios Maragkos, Pieter Rauwoens, Bart Merci, Ghent University, Belgium
- W2P083: 3-DIMENSIONAL SIMULATION OF TWO INTERACTING PREMIXED FLAME JETS
Anjan Ray, Vednath Mathur, Indian Institute of Technology, India
- W2P084: AN ANALYTICAL APPROACH FOR CALCULATING HEAT TRANSFER CHARACTERISTICS OF AN IMPINGING PREMIXED LAMINAR FLAME JET
Anjan Ray, Vednath Mathur, Indian Institute of Technology, India
- WP085: MODELING OF LAMINAR PARTIALLY PREMIXED DIMETHYL ETHER FLAMES USING OPENFOAM
Danny Messig, TU Bergakademie Freiberg, Germany
- W2P086: EXPERIMENTAL MEASUREMENT AND MODELING OF HEXANE-AIR LAMINAR BURNING SPEEDS
Stephanie Coronel, Remy Mével, Philipp Boettcher, Vaughan Thomas, Joseph E. Shepherd, California Institute of Technology, USA
- W2P087: HIGH FIDELITY COMBUSTION SIMULATIONS
Kushal Kedia, Ahmed Ghoniem, Massachusetts Institute of Technology, USA
- W2P088: AN EXPERIMENTAL AND KINETIC MODELING STUDY ON PREMIXED METHYLCYCLOHEXANE FLAMES AT LOW PRESSURE
*Fei Qi, Zhandong Wang, Lidong Zhang, Feng Zhang, Jiuzhong Yang, Hanfeng Jin
 University of Science and Technology of China, China*
- W2P089: INVESTIGATION OF CO₂ ADDITION ON THE PREMIXED C₂H₄ FLAME AT LOW PRESSURE
Fei Qi, Zhanjun Cheng, Lidong Zhang, Zhandong Wang, Wenhao Yuan, Yizun Wang, Yuyang Li, University of Science and Technology of China, China
- W2P090: THE NUMERICAL MODELING OF PROPAGATION CHARACTERISTICS OF LAMINAR H₂ FLAME IN VITIATED COAXIAL FLOW
Chih-Yung Wu¹, Y.-H. Li², K.-H. Chen², T.-W. Chang²¹Kao Yuan University, Taiwan ²National Cheng Kung University, Taiwan
- W2P091: EXTINCTION CHARACTERISTICS OF CH₄/O₂/Xe COUNTERFLOW FLAMES AT LOW STRETCH RATES AND THEIR TRANSITIONS TO BALL-LIKE FLAMES
*Koichi Takase¹, Xing Li¹, Hisashi Nakamura¹, Takuya Tezuka¹, Susumu Hasegawa¹, Masato Katsuta², Masao Kikuchi², Kaoru Maruta¹
¹Tohoku University, Japan ²Japan Aerospace Exploration Agency, Japan*

- W2P092: LAMINAR BURNING VELOCITIES AND MARKSTEIN LENGTHS OF CH₄/O₂/N₂/CARBON-BLACK-PARTICLE MIXTURES
Chonglin Song, Jinou Song, Gang Lv, Dan Li, Hao Li, Xiaowei Wang, Tianjing University, China
- W2P093: A REDUCED KINETIC MECHANISM FOR SYNGAS COMBUSTION AT ELEVATED TEMPERATURES AND PRESSURES
Tatiana Bolshova, Andrey Shmakov, Sergey Yakimov, Denis Knyazkov, Oleg Korobeinichev, Institute of Chemical Kinetics and Combustion, Russia
- W2P094: HEATFLUXER—A ROBUST EVAPORATOR FOR DETERMINING LAMINAR BURNING VELOCITIES OF LIQUID BIOFUELS
Tobias Knorsch, Universität Erlangen-Nürnberg, Germany
- W2P095: STUDY OF LAMINAR AND TURBULENT PREMIXED ISO-OCTANE/AIR FLAMES
Bénédicte Galmiche, Fabien Halter, Fabrice Foucher, Université d'Orléans, France
- W2P096: CHEMICAL REACTION MECHANISM OF ETHANOL/AIR PREMIXED FLAME AT ELEVATED PRESSURE AND ELEVATED TEMPERATURE
Yasuhiro Ogami¹, Masato Ozeki², Hideaki Kobayashi²¹Akita Prefectural University, Japan, ²Tohoku University, Japan
- W2P097: DETAILED NUMERICAL SIMULATION OF FORCED PLANAR PREMIXED FLAMES
Zoltan Jozefik, BTU Cottbus, Germany
- W2P098: MEASUREMENTS IN THE POST-OXIDATION ZONE OF RICH CH₄/O₂/N₂/H₂O PREMIXED FLAMES
Thibault Guibert¹, Jean Caudal¹, Philippe Scoufnaire¹, Nasser Darabiha¹, Thierry Schuller¹, Bernard Labegorre²¹CNRS, France ²Air Liquide, France
- W2P099: WRINKLE FORMATION OF PREMIXED FLAMES IN STANDING ACOUSTIC FIELDS
Mitsuaki Tanabe, Nihon University, Japan
- W2P100: STUDY ON IGNITION CHARACTERISTICS OF LOWER ALKANE FUELS USING A MICRO FLOW REACTOR WITH A CONTROLLED TEMPERATURE PROFILE
Taiki Kamada, Takuya Tezuka, Susumu Hasegawa, Hisashi Nakamura, Kaoru Maruta, Tohoku University, Japan
- W2P101: IGNITION AND COMBUSTION CHARACTERISTICS OF CH₄/O₂/CO₂ MIXTURE IN MICRO FLOW REACTOR WITH A CONTROLLED TEMPERATURE PROFILE
Xing Li¹, Jia Li², Takakazu Onishi¹, Takuya Tezuka¹, Susumu Hasegawa¹, Kaoru Maruta¹¹Tohoku University, Japan ²Beijing Jiaotong University, China
- W2P102: FILTRATION COMBUSTION WAVES IN POROUS MEDIA WITH HEAT RADIATION
Fedor Palesskiy, Khristianovich Institute of Theoretical and Applied Mechanics, Russia
- W2P103: DETAILED STRUCTURE AND BEHAVIOR OF H₂-AIR BUNSEN BURNER FLAME TIP
Yasuhiro Mizobuchi, Tadao Takeno, Japan Aerospace Exploration Agency, Japan
- W2P104: TWO-DIMENSIONAL MODELING FOR COMBUSTION PROCESSES IN TWO SECTIONAL POROUS PREMIXED BURNER
Youngjun Shin, Jeongwon Lee, Yongmo Kim, Hanyang University, Korea
- W2P105: FLAME STABILIZATION AND LIFT-OFF CHARACTERISTICS OF NON-PREMIXED JET FLAMES IN A NARROW CHANNEL
Nam Il Kim, Seung Il Park, Min Jung Lee, Chung-Ang University, Korea
- W2P106: NUMERICAL STUDIES OF LAMINAR AND TURBULENT FLAME SPEED FOR PREMIXED HYDROGEN-AIR FLAMES
Birgitte Johannessen¹, Terese Løvås¹, Andrea Gruber²¹Norwegian University of Science and Technology, Sweden ²Sintef Energy, Norway
- W2P107: EXPERIMENTAL STUDY OF THE FLAMMABILITY LIMITS OF CO/H₂/CH₄/AIR MIXTURES DILUTED WITH HE OR CO₂
Andrea Comandini, Marie Michelle Ndem, Nabih Chaumeix, ICARE-CNRS, France
- W2P108: STUDY OF EFFECTS OF THERMAL AND MASS DIFFUSIONS ON IGNITION AND PROPAGATION OF METHANE/AIR PREMIXED FLAME BY MICRO-FLOW REACTOR MODEL WITH CONTROLLED TEMPERATURE PROFILE
Takuro Nishida¹, Takuhiro Matsumoto¹, Toshihisa Ueda¹, Takeshi Yokomori¹, Kaoru Maruta²¹Keio University, Japan ²Tohoku University, Japan
- W2P109: STRUCTURE AND LIFTOFF IN COMBUSTION EXPERIMENT (SLICE) ON THE ISS
Bin Ma¹, Davide Giassi¹, Dennis Stocker², Fumiaki Takahashi², Marshall Long¹¹Yale University, USA ²NASA Glenn Research Center, USA
- W2P110: LEAN FLAMMABILITY LIMITS OF KEROSENE SURROGATES
Bastien Boust, Marc Bellenoue, PPRIME-Futuroscope, France
- W2P111: STRUCTURE AND NO EMISSIONS FROM METHANE INVERSION DIFFUSION FLAMES WITH CO-FLOWING AIR AND COMBUSTION PRODUCTS
Andrzej Sobiesiak¹, Michael Johnson²¹Univeristy of Windsor, Canada ²Rolls-Royce Canada, Canada

- W2P112: COMPARISON OF DNS PREDICTIONS OF HYDRODYNAMIC AND DIFFUSIVE-THERMAL INSTABILITIES FROM S3D AND LMC
Ray Grout¹, John Bell², Jacqueline Chen³
¹National Renewable Energy Laboratory, USA ²Lawrence Berkeley National Laboratory, USA ³Sandia National Laboratories, USA
- W2P113: INITIATION OF THE CORRUGATED STRUCTURE IN DOWNWARD PROPAGATING FLAMES IN A COMBUSTION TUBE WITH EXTERNAL LASER
Yoshikazu Taniyama, Hokkaido University, Japan
- W2P114: CRITICAL LIMITS OF EXTINCTION AND AUTOIGNITION OF DIMETHYL ETHER/AIR FLAMES IN THE COUNTERFLOW CONFIGURATION
*Ryan Gehmlich¹, Liming Cai², Kalyanasundaram Seshadri¹, Norbert Peters²*¹University of California, San Diego, USA ²RWTH Aachen, Germany
- W2P115: H₂O AND CO₂ EFFECTS ON GLOBAL PROPERTIES OF H₂/CO FLAMES
*Okjoo Park¹, Peter Veloo², Fokion Egolfopoulos¹*¹University of Southern California, USA ²Princeton University, USA
- W2P116: NUMERICAL STUDY OF ROD-STABILIZED LEAN CH₄-AIR AND H₂-CH₄-AIR INVERTED PREMIXED FLAMES
Francisco Emanuel Hernandez Perez, Jeroen van Oijen, Philip de Goey, Eindhoven University of Technology, The Netherlands
- W2P117: EXTINCTION LIMITS AND STRUCTURE OF COUNTERFLOW NON-PREMIXED WATER-LADEN METHANE/AIR FLAMES
*Rosa Padilla¹, Derek Dunn Rankin¹, Oh Kwon², Seungro Lee³*¹University of California, Irvine, USA ²Sungkyunkwan University, Korea ³Inha University, Korea
- W2P118: A CONSISTENT DEFINITION OF THE FLAME DISPLACEMENT SPEED IN NUMERICAL SIMULATIONS OF FLAME PROPAGATION.
Georgios Giannakopoulos¹, Athanasios Gatzoulis¹, Moshe Matalon², Christos Altantzis³, Christos Emmanouil Frouzakis⁴, Ananias Tomboulides¹
¹University of Western Macedonia, Greece ²University of Illinois at Urbana-Champaign, USA
³Massachusetts Institute of Technology, USA ⁴Swiss Federal Institute of Technology, Switzerland
- W2P119: WTHDRAWN
- W2P120: FLAME STABILITY MODULATION WITH NON-UNIFORM EXCITATION BY ELECTRIC FIELDS
*Daniel Murphy¹, David Shulman¹, Gregory Noel², Carlos Fernandez-Pello¹*¹University of California, USA ²Sandia National Laboratories, USA
- W2P121: EFFECTS OF NITROGEN DILUENT ON THE LAMINAR BURNING VELOCITY AND FLAME STABILITY OF METHANE-BASED GASEOUS FUEL AND AIR MIXTURES
*Haiyan Miao¹, Yan Liu²*¹Institute of High Performance Computing, Singapore ²Xi'an Jiaotong University, China
- W2P122: NUMERICAL INVESTIGATION OF FLAME INTERACTION MODES IN METHANE AND HYDROGEN COUNTERFLOW PREMIXED FLAMES
Ji-Woong Park, Chang Bo Oh, Pukyong National University, Korea
- W2P123: EFFECT OF OZONE ON BLOWOFF OF PREMIXED LAMINAR FLAMES IN A COFLOW
Manh Vu Tran, Min Suk Cha, King Abdullah University of Science and Technology, Saudi Arabia
- W2P124: WEAKLY STRETCHED FLAME SPEED MEASUREMENTS AND EXTRAPOLATION TO ZERO-STRETCH
Timothy Ombrello¹, Campbell Carter¹, Viswanath Katta², Matthew Pinchak³, Ephraim Gutmark³
¹Wright Patterson Air Force Base, USA ²Innovative Scientific Solutions, Inc., USA ³University of Cincinnati, USA
- W2P125: CHARACTERISTICS OF NON-SYMMETRIC EDGE FLAMES IN MICRO-CHANNELS
Casey McGrath, Joanna Bieri, University of Redlands, USA
- W2P126: BURNING CHARACTERISTICS OF COLLIDE-MERGED WATER/BIODIESEL, METHANOL/BIODIESEL, AND ETHANOL/BIODIESEL DROPLETS
Ching-Hua Wang, Guo-Juen Ueng, Chen-Fong Tsai, Jew-Yen Yang, National Taiwan University, Taiwan
- W2P127: ABOUT THERMAL EXPLOSION OF POLYDISPERSE FUEL SPRAY
Ophir Nave, Vladimir Gol'dshtein, Ben Gurion University, Israel
- W2P128: COMPARISON OF VARIOUS MODELS FOR DYNAMIC TRANSIENT NOZZLE FLOW SIMULATIONS
Sven Jollet, Friedrich Dinkelacker, University of Hannover, Germany
- W2P129: LES/CMC PREDICTIONS OF SPARK IGNITION PROBABILITY IN A LIQUID FUELLED SWIRL BURNER
*Artur Tyliczszak¹, Epaminondas Mastorakos²*¹University of Czestochowa, Poland ²University of Cambridge, UK
- W2P130: FLAMMABILITY LIMITS OF HYDROGEN/AIR/WATER MIST
*Jules Goulier¹, Nabih Chaumeix¹, Claude-Etienne Paillard¹, Ahmed Bentaib²*¹ICARE- CNRS, France ²IRSN- DSR/SAGR, France

- W2P131: FLAME SPREAD ALONG LINEAR DROPLET ARRAYS OF EMULSIONS IN MICROGRAVITY
Daisuke Segawa, Keisuke Yamada, Takahiro Kagami, Hidefumi Kataoka, Osaka Prefecture University, Japan
- W2P132: INVESTIGATIONS INTO SPRAY FORMATION FOR DIFFERENT TYPES DIESEL FUELS
Ireneusz Pielecha, Krzysztof Wislocki, Jakub Czajka, Dmytro Maslennikov, Poznan University of Technology, Poland
- W2P133: DEPENDENCE OF FLAME-SPREAD-LIMIT DISTANCE FROM INTERACTIVELY BURNING *N*-DECANE DROPLETS ON FLAME-SPREAD DIRECTION IN MICROGRAVITY
Tsutomu Hirose¹, Hidetaka Watari¹, Takehiko Seo¹, Masato Mikami¹, Masao Kikuchi²¹Yamaguchi University, Japan²Japan Aerospace Exploration Agency, Japan
- W2P134: DNS OF TURBULENT SPRAY AUTOIGNITION AT LOW AIR TEMPERATURES
Giulio Borghesi, Epaminondas Mastorakos, University of Cambridge, UK
- W2P135: JOINT VELOCITY- SCALAR PROBABILITY DENSITY FUNCTION APPROACH FOR THE MODELING OF TURBULENT FUEL SPRAY FLOWS
Eva Gutheil, Yong Hu, Hai-Wen Ge, Universität Heidelberg, Germany
- W2P136: SPRAY COMBUSTION SIMULATIONS USING FLAMELET-GENERATED MANIFOLD AND LARGE-EDDY SIMULATION
*Armin Wehrfritz¹, Ossi Kaario¹, Ville Vuorinen¹, Martti Larmi¹, Cemil Bekdemir², Bart Somers²
¹Aalto University, Finland²Eindhoven University of Technology, The Netherlands*
- W2P137: ASYMPTOTIC ANALYSIS OF FERROFLUID DROPLET COMBUSTION UNDER VERY LARGE MAGNETIC POWER
Cesar Cristaldo, Fernando Fachini, Instituto Nacional de Pesquisas Espaciais, Brazil
- W2P138: EXPERIMENTS AND COMPUTATION OF TRANSIENT IMPINGING TURBULENT JETS—TOWARDS A REFERENCE EXPERIMENT FOR SIMULATION DEVELOPMENT
*Sebastian Kaiser¹, Rob Bastiaans², Cemil Bekdemir², Martin Goschuetz¹, Andreas Kempf¹, Nguyen Thuong¹, Jeroen van Oijen², Christof Schultz¹, Irenaeus Wlokas¹
¹University of Duisburg-Essen, Germany²Eindhoven Univ. of Technology, The Netherlands*
- W2P139: MAXIMUM ENTROPY PRINCIPLE PREDICTIONS OF DROPLET SIZE DISTRIBUTION INCLUDING TURBULENCE EFFECTS
Ehsan Movahednejad¹, C.P. Chen²¹Islamic Azad University, Iran²University of Alabama, Huntsville, USA
- W2P140: MEASUREMENTS OF NO_x FORMATION FROM THE COMBUSTION OF ALGAL METHYL ESTER BIODIESEL AND ALGAL HYDROTREATED RENEWABLE DIESEL
Timothy Vaughn, Torben Grumstrup, Kristen Naber, Colorado State University, USA
- W2P141: UNCERTAINTY IN FUEL INJECTOR NOZZLE FLOW COEFFICIENT MEASUREMENTS AND POTENTIAL IMPACT ON DIESEL SPRAY COMBUSTION PROCESSES
Caroline Genzale, Zachary Falgout, Benjamin Knox, Georgia Institute of Technology, USA
- W2P142: “COOL FLAMES” IN DROPLET COMBUSTION: ISOLATED *N*-HEPTANE DROPLET COMBUSTION IN MICROGRAVITY
Tanvir Farouk, Frederick Dryer, Princeton University, USA
- W2P143: EFFECT OF A FUEL SPRAY ON EDGE FLAME PROPAGATION
J.B. Greenberg¹, L.S. Kagan², G.I. Sivashinsky²¹Israel Institute of Technology²Tel Aviv University

THURSDAY –WORK-IN-PROGRESS POSTERS

- W4P001: THE CHARCOAL CHALLENGE: REGULATION OF GLOBAL CARBON CYCLES BY VEGETATION FIRES
Rowena Ball, The Australian National University, Australia
- W4P002: EFFECTS OF THERMAL DECOMPOSITION BEFORE IGNITION ON FLAME SPREAD OVER METHANE HYDRATE
Genichiro Kushida, Takuya Okamoto, Tokai Rubber Industries, Ltd., Japan
- W4P003: THE COMBINED EFFECTS OF OXYGEN, INCLINED ANGLE AND EXTERNAL RADIATION ON THE FLAME SPREAD OVER WOOD SURFACE
Qingsong Wang, University of Science and Technology of China, China
- W4P004: SIMILARITY OF BUOYANT JET FLAMES DOES NOT APPLY AT VARIABLE PRESSURES
Longhua Hu¹, Qiang Wang¹, Fei Tang¹, Michael Delichatsios²¹Univertisity of Science and Technology of China, China²University of Ulster, UK
- W4P005: THERMOCOUPLE BASED EVALUATION OF VIDEO DRIVEN FIRE SPREAD FORECASTING
Steven Verstockt, Tarek Beji, Bart Merci, Rik Van de Walle, Ghent University, Belgium
- W4P006: EFFECTS OF ALTERING THE LIQUID PHASE BOUNDARY CONDITIONS OF METHANOL POOL FIRES
Alireza Vali, David Nobes, Larry Kostiuik, University of Alberta, Canada
- W4P007: CRITICAL MASS FLUX FOR FLAMING IGNITION OF WET WOOD
Sara McAllister, Mark Finney, Jack Cohen, USDA Forest Service, Missoula, USA
- W4P008: MODELING SOOT RADIATION FROM RICH AND LEAN REGIONS OF FIRES
Prateep Chatterjee¹, Yi Wang¹, Niveditha Krishnamoorthy², John L. de Ris¹, Sergey B. Dorofeev¹¹FM Global Research, USA²CD-adapco, USA
- W4P009: THE EFFECT OF BOILING POINT OF FUEL ON THE FIRE EXTINCTION BY THE CARBON DIOXIDE HYDRATE
Kosuke Sasakura, Takeshi Yokomori, Ryo Ohmura, Toshihisa Ueda, Keio University, Japan
- W4P010: SODIUM LEAKS: LISOF EXPERIMENTS AND MODELING
Giovanni Manzini, Ricerca sul Sistema Energetico, Italy
- W4P011: EFFECT OF FINE WATER DROPLETS ON CRITICAL VELOCITY GRADIENTS AT EXTINGUISHMENT AND DROPLET DYNAMICS IN THE VICINITY OF FLAME ZONE IN COUNTERFLOW DIFFUSION FLAME
*Ryohei Takasaki¹, Kouki Kashiwa¹, Hiroyoshi Naito², Yuko Saso³, Akira Yoshida¹
¹Tokyo Denki University, Japan²Fire and Disaster Management Agency, Japan³National Research Institute of Fire and Disaster, Japan*
- W4P012: LAMINAR BURNING SPEEDS AND MARKSTEIN LENGTHS OF P-CYMENE POSSIBLY INVOLVED IN ACCELERATING FOREST FIRES
*Léo Courty¹, Khaled Chetehouna², Christine Mounaïm-Rousselle³, Fabien Halter³, Jean-Pierre Garo¹
¹Institut P'-Poitiers, France²ENSI de Bourges, France³Université d'Orléans, France*
- W4P013: AN EXPERIMENTAL STUDY ON MOVEMENT OF SMOKE GENERATED BY A FIRE IN AN INDOOR WASTE PROCESSING PLANT
Takeshi Suzuki, National Research Institute of Fire and Disaster, Japan
- W4P014: APPLICATION OF THE FIRE FORECASTING CONCEPT TO FURNITURE FIRES IN AN ISO-ROOM
Tarek Beji, Steven Verstockt, Rik Van de Walle, Bart Merci, Ghent University, Belgium
- W4P015: AN OBSERVATION OF PULSATING FLAME SPREAD ON COMBUSTION PROCESS OF A PAPER SHEET
Tadafumi Daitoku, Kyousuke Maki, Takashi Tsuruda, Akita Prefectural University, Japan
- W4P016: RESEARCH THE DOWNWARD DISPLACEMENT OF FIRE SMOKE INDUCED BY WATER SPRAY
Zhi Tang¹, Jan Vierendeels¹, Zheng Fang², Bart Merci¹¹Ghent University, Belgium²Wuhan University, China
- W4P017: EXTINGUISHMENT OF POOL FIRE WITH RUBBER BALLOON INFLATED WITH INERT GAS
Hiroyuki Torikai, Akihiko Ito, Hirosaki University, Japan
- W4P018: VERTICAL WALL EXPERIMENTS FOR VALIDATION OF A COMPREHENSIVE FIRE SUPPRESSION MODEL
Jaap de Vries, Karl Meredith, Yibing Xin, Yi Wang, FM Global Research, USA
- W4P019: A MECHANISM FOR INHIBITION OF ATMOSPHERIC-PRESSURE SYNGAS/AIR FLAMES BY TRIMETHYLPHOSPHATE
Vladimir Shvartsberg, Andrey Shmakov, Tatyana Bolshova, Oleg Korobeinichev, Institute of Chemical Kinetics and Combustion, Russia

- W4P020: A STUDY OF THE KINETICS AND MECHANISM OF FOREST FUELS PYROLYSIS USING MOLECULAR BEAM MASS SPECTROMETRY AND A HIGH HEATING RATE
Alexander Paletsky, Munko Gonchikzhapov, Oleg Korobeinichev, Institute of Chemical Kinetics and Combustion, Russia
- W4P021: AN EXPERIMENTAL STUDY OF THE EFFECTS OF SAMPLE INCLINATION ON THE FLAME SPREAD RATE OF THIN SOLID FUELS
Toni Pujol, Bruna Comas, Laura Pou, University of Girona, Spain
- W4P024: THE KINETICS AND MECHANISM OF FOREST FUELS PYROLYSIS IN INERT AND OXIDATIVE MEDIA
Munko Gonchikzhapov¹, Alexander Paletsky¹, Oleg Korobeinichev¹, Inna Shundrina², Naian Liu³, Haixiang Chen³
¹Institute of Chemical Kinetics and Combustion, Russia ²Novosibirsk Institute of Organic Chemistry, Russia ³University of Science and Technology, China
- W4P025: SUPPRESSION OF BLUFF BODY STABILIZED FLAMES BY INERT GASES
Jung-ran Lee, Eui-Ju Lee, Pukyung National University, Korea
- W4P026: CFD MODELING OF FIRE GROWTH BETWEEN PARALLEL PANELS
Yi Wang, Marcos Chaos, Prateep Chatterjee, Niveditha Krishnamoorthy, Sergey Dorofeev, FM Global Research, USA
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Chao Xu, BTU, Germany
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Patrizia Minutolo¹, Mario Commodo¹, Lee Anne Sgro¹, Andrea D'Anna² ¹IRC-CNR, Italy ²University Federico II, Italy
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Yuan Gao¹, Nilanjan Chakraborty¹, Nedunchezian Swaminathan² ¹Newcastle University, UK ²University of Cambridge, UK
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Luis Arteaga Mendez, Delft University of Technology, The Netherlands

- W4P134: TURBULENT FLAME SPEED DATA FOR HYDROGEN-RICH FUEL GASES AT GAS TURBINE RELEVANT CONDITIONS
Yu-Chun Lin¹, Salvatore Daniele¹, Peter Jansohn¹, Konstantinos Boulouchos²
¹Paul Scherrer Institut, Switzerland ²ETH Zurich, Switzerland
- W4P135: COMBUSTION OF LOW-CALORIFIC BIOMASS SYNGAS
Kamil Kwiatkowski¹, Marek Dudyński², Konrad Bajer¹ ¹University of Warsaw, Poland ²Modern Technologies and Filtration Sp. z o.o., Poland
- W4P136: A FLAMELET MODEL FOR LES OF HIGH KARLOVITZ NUMBER PREMIXED FLAMES
Edward Knudsen¹, Evatt Hawkes², Heinz Pitsch³ ¹Stanford University, USA ²The University of New South Wales, Australia ³RWTH-Aachen University, Germany
- W4P137: HYSTERESIS OF METHANE DIFFUSION FLAMES ASSISTED BY ARGON PLASMA JETS
Jingfeng Tang, Daren Yu, Changjin Luo, Wen Bao, Harbin Institute of Technology-Harbin, China
- W4P138: TURBULENT FLUX OF MIXTURE FRACTION IN INERT AND REACTIVE TRANSVERSE JET IN CROSS-FLOW
Hemanth Kolla¹, Ray Grout², Andrea Gruber³, Jacqueline Chen¹
¹Sandia National Laboratories, USA ²National Renewable Energy Laboratory, USA ³SINTEF Energy Research, Norway
- W4P139: VISUALIZATION OF LOCAL EXTINCTIONS IN PREHEATED NON-PREMIXED CH₄/AIR JET-FLAME BY SIMULTANEOUS OH-PLIF AND CH-CHEMILUMINESCENCE
Sylvain Lamige, Manuel Kühni, Lahlou Ouahbi, Cédric Galizzi, Frédéric André, Danny Escudié, Center for Thermal Sciences of Lyon, France
- W4P140: CONDITIONAL MOMENT CLOSURE USING TABULATED CHEMISTRY
Harry Lehtiniemi¹, Anders Borg¹, Fabian Mauss² ¹Loge AB-Lund, Sweden ²Brandenburg University of Technology, Germany
- W4P141: LES OF LEAN STRATIFIED COMBUSTION USING SPATIALLY FILTERED FLAMELETS
Sudipto Mukhopadhyay, R.J.M. Bastiaans, J.A. van Oijen, L.P.H. de Goey, Eindhoven University of Technology, The Netherlands
- W4P142: SIMULATION OF VARIABLE DENSITY JETS USING A STAND-ALONE PDF METHOD
Asgar Ghorbani¹, Detlef Markus¹, Ulrich Maas² ¹Physikalisch-Technische Bundesanstalt, Germany ²Karlsruhe Institute of Technology, Germany
- W4P143: COMPARATIVE STUDY OF ALGEBRAIC AND TRANSPORTED FSD MODELS FOR LES OF TURBULENT PREMIXED FLAMES IN FLAMELET AND THIN REACTION ZONE REGIMES
Nasim Shahbazian, Clinton P.T. Groth, Ömer L. Gülder, University of Toronto, Canada
- W4P144: LES/FDF PREDICTION OF LOCAL EXTINCTION IN TURBULENT NON-PREMIXED METHANE JET FLAMES
Reza Sheikhi, Fatemeh Hadi, Mehdi Safari, Northeastern University, USA
- W4P145: THE ROLE OF MARKSTEIN NUMBER ON THE TURBULENT FLAME SPEED AND ITS SCALING
Fujia Wu, Swetaprovo Chaudhuri, Chung K. Law, Princeton University, USA
- W4P146: COAL PARTICLE COMBUSTION IN CH₄/O₂/CO₂
Alexander Schmidt, Saravanan Balusamy, Simone Hochgreb, John Dennis, University of Cambridge, UK
- W4P147: COMBUSTION OF LOW CALORIFIC NATURAL GASES IN THERMALLY HIGHLY CHARGED RECIPROCATING GAS ENGINES
Jakub Rojewski, Rafal Slefarski, Tomasz Dobski, Poznan University of Technology, Poland

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Satoshi Okajima, Infield Capital-Boulder, USA
- W5P002: MICROWAVE-ASSISTED SPARK IGNITION IN CONSTANT VOLUME CHAMBER
Benjamin Wolk¹, Anthony DeFilippo¹, Jyh-Yuan Chen¹, Robert Dibble¹, Atsushi Nishiyama², Yuji Ikeda²
¹University of California-Berkeley, USA ²Imagineering, Inc., USA
- W5P003: ECN BASELINE N-HEPTANE CASE SIMULATIONS WITH THE FGM METHOD
Ulaş Egüz, Sridhar Ayyapureddi, Cemil Bekdemir, Bart Somers, Philip de Goeij, Eindhoven University of Technology, The Netherlands
- W5P004: LAMINAR BURNING VELOCITY OF METHANE AIR MIXTURES AT ELEVATED TEMPERATURES
*Akram Mohammad¹, Sudarshan Kumar¹, Priyank Saxena²**¹Indian Institute of Technology Bombay, India ²Solar Turbines Inc., USA*
- W5P005: KINETICS OF LOW-TEMPERATURE PLASMA-ASSISTED ETHANOL REFORMING FOR H₂-RICH SYNGAS COMBUSTION
Vadym Naumov¹, Anatoly Shchedrin¹, Dmitry Levko¹, Natalia Titova², Alexander Starik²
¹National Academy of Sciences of Ukraine, Ukraine ²Central Institute of Aviation Motors, Russia
- W5P006: DIRECT NUMERICAL SIMULATIONS OF MULTISTAGE AUTOIGNITION FOR A STRATIFIED HCCI ENGINE WITH EXHAUST GAS RECIRCULATION
Hossam El-Asrag, Yigunag Ju, Princeton University, USA
- W5P007: METHANE REFORMING PROCESS BY EXCESS ENTHALPY FLAME IN A PERFORATED SiC TUBE
Pil Hyong Lee, Hyun Jin Im, Chun Loon Cha, Seong Weon Hong, Sang Soon Hwang, University of Incheon, Korea
- W5P008: NUMERICAL SIMULATION OF OXY-COAL COMBUSTION
Lei Chen, Ahmed Ghoniem, Massachusetts Institute of Technology, USA
- W5P009: INFLUENCE OF WALL TEMPERATURES AND SURFACE REACTIONS ON THE FLAME-WALL INTERACTION OF A HYDROGEN-AIR MIXTURE BY NUMERICAL SIMULATION
Naoki Hayashi, Toshiki Imai, Hiroshi Yamashita, Nagoya University, Japan
- W5P010: NO_x REDUCTION OF NON-PREMIXED FLAMES BY COMBINATION OF BURNER AND FURNACE
Susumu Noda¹, K.D. Kunkuma¹, A. Somarathne¹, I. Gede Parwatha¹, Yuzuru Nada², Takahiro Ito³
¹Toyohashi University of Technology, Japan ²Tokushima University, Japan ³Nagoya University, Japan
- W5P011: EULER-LAGRANGE SIMULATION OF BIOMASS GASIFICATION IN A HIGH-TEMPERATURE ENTRAINED FLOW REACTOR
Xiaoke Ku, Tian Li, Terese Løvås, Norwegian University of Science and Technology, Norway
- W5P012: CONFIGURATION EFFECTS OF REGENERATIVE MULTI-BURNER FLAMELESS OXIDATION FURNACE ON EFFICIENCY AND EMISSIONS
Eun-Seong Cho, Delft University of Technology, The Netherlands
- W5P013: PROPAGATED BEHAVIOR OF PREMIXED HYDROCARBON FLAME IN A CERAMIC GRANULAR BED
Ian Shou-Yin Yang, Te-Li Hsu, National Formosa University, Taiwan
- W5P014: VARIATIONS OF SOX AND NXOY EMISSIONS DURING O₂/CO₂ COMBUSTION
Astrid Sanchez¹, Eric Eddings², Fanor Mondragon³
¹University of Sydney, Australia ²University of Utah, USA ³Universidad de Antioquia, Columbia
- W5P015: TOWARD A FAST AND EFFICIENT METHOD FOR SIMULATING REACTING FLOWS WITH LARGE DETAILED CHEMICAL KINETICS: APPLICATION OF A DYNAMIC MULTI-TIMESCALE METHOD
Hiroshi Terashima, Mitsuo Koshi, University of Tokyo, Japan
- W5P016: AIR GASIFICATION OF BIOMASS PELLETS IN THE AUTO-THERMAL PACKED BED REACTOR
Joseph Kihedu, Ryo Yoshiie, Yasuaki Ueki, Naruse Ichiro, Nagoya University, Japan

- W5P017: PARAMETRICAL THEORETICAL AND EXPERIMENTAL STUDY OF THRUST CHARACTERISTICS OF NOVEL MEMS MICROTHRUSTER ON SOLID-FUEL MIXTURES GLYCIDYL AZIDE POLYMER (GAP)/RDX
Sergey Futko, A.V. Luikov, Heat and Mass Transfer Institute, Belarus
- W5P018: EFFECT OF REACTOR SCALE ON HEAT RECIRCULATION AND SYNGAS PRODUCTION IN A NON-CATALYTIC REFORMER
Erica Belmont¹, Patryk Radjowski², Janet Ellzey¹ ¹The University of Texas at Austin, USA ²The University of Edinburgh, UK
- W5P019: A TEST RIG FOR INVESTIGATING TURBULENT FUEL JET FLAMES IN HOT CO-FLOWS OF OXY-FUEL AND AIR COMBUSTION PRODUCTS
John Roesler, Elena Sanz, Willi Nastoll, Philippe Béard, IFPEN-Lyon, France
- W5P020: EVALUATION OF OPTIMAL OPERATIVE CONDITIONS FOR A POST-COMBUSTION PROCESS TO REDUCE NON-CONDENSABLE REACTIVE SPECIES IN CO₂-RICH EXHAUST GASES
Alfonso Chinnici¹, Mara de Joannon², Pino Sabia², Raffaele Ragucci² ¹University Federico II of Naples, Italy ²IRC-CNR, Italy
- W5P021: NUMERICAL STUDY OF HEAT TRANSFER AND COMBUSTION IN A PISTON ENGINE WITH POROUS MEDIA
Lei Zhou¹, Mao-Zhao Xie², Kai-Hong Luo³ ¹Tsinghua University, China ²Dalian University of Technology, China ³University of Southampton, UK
- W5P022: EFFECT OF SURFACE REACTIONS ON GAS PHASE REACTIONS OF H₂/O₂/N₂ MIXTURE IN A MICRO FLOW REACTOR WITH A CONTROLLED TEMPERATURE PROFILE
Yuta Kizaki, Kenichirou Saruwatari, Hisashi Nakamura, Takuya Tezuka, Susumu Hasegawa, Kaoru Maruta, Tohoku University, Japan
- W5P023: FORMATION OF COOL FLAME OF N-HEPTANE FOR SELF EVAPORATION
Chun Loon Cha, Pil Hyong Lee, Seung Weon Hong, Hyun Jin Im, Ki Jong Song, Sang Soon Hwang, University of Incheon, Korea
- W5P024: EXPERIMENTAL CHARACTERIZATION OF A TWO-STAGE BURNER FOR CONVERSION OF GASES WITH STRONGLY VARYING CALORIFIC VALUE
Isabel Frenzel, Alexandra Loukou, Dimosthenis Trimis, TU Bergakademie Freiberg, Germany
- W5P025: EXPERIMENTAL STUDY ON AUTO-THERMAL REFORMING (ATR) OF METHANE USING A MIXTURE OF METAL AND PRECIOUS METAL CATALYSTS FOR SYNGAS PRODUCTION
Taesoo Kim, Hyerim Gu, Sangjun Park, Soonho Song, Kwang Min Chun, Yonsei University, Korea
- W5P026: THE EFFECT OF FLAME INTERFERENCE ON HEAT TRANSFER CHARACTERISTICS AND EMISSION CHARACTERISTICS OF MULTIPLE BURNERS ARRANGED IN A LATTICE
Risa Hanajima¹, Hiromichi Yamada¹, Toshihisa Ueda¹, Takeshi Yokomori¹, Satoshi Aizumi² ¹Keio University, Japan ²Tokyo Gas, Japan
- W5P027: NUMERICAL ANALYSIS OF BLENDING METHOD FOR LOW RANK COAL COMBUSTION IN THE 500 MW T-FIRING BOILER
Min Young Hwang, Chung Hwan Jeon, Ryang Gyoon Kim, Gyu Bo Kim, Seung Mo Kim, Pusan National University, Korea
- W5P028: STABILIZATION OF ELECTRO-SPRAYED FLAME IN A NARROW TUBE
Yoshiyuki Maeda¹, Lilis Yuliati², Takehiko Seo¹, Masato Mikami¹ ¹Yamaguchi University, Japan ²Brawijaya University, Indonesia
- W5P029: A NOVEL TECHNIQUE FOR SUBMICRON PARTICLES ABATEMENT: VAPOR CONDENSATIONAL SCRUBBER
Gennaro Cozzolino¹, Mara de Joannon², Raffaele Ragucci², Antonio Cavaliere¹ ¹University Federico II of Naples, Italy ²IRC-CNR, Italy
- W5P030: IMPACT OF H₂O AND SO₂ ON THE CARBONATION OF HIGH-CA COAL ASH UNDER OXYFUEL COMBUSTION CONDITIONS
Dunxi Yu¹, Ao Wang², Jianyuan Wang¹, Hong Yao¹, Minghou Xu¹ ¹Huazhong University of Science and Technology, China ²Tsinghua University, China
- W5P031: AN EXPERIMENTAL STUDY ON OVERALL CHARACTERISTICS OF OPPOSED FLOW FLAMES IN NARROW CHANNELS AS A MODEL OF MESO-SCALE COMBUSTORS
Nam Il Kim, Min Jung Lee, Chung-Ang University, Korea
- W5P032: DIRECT OBSERVATION OF FLAME STABILIZATION IN NARROW MULTI-CHANNELS AS A MODEL OF REFRACTORY COMBUSTORS
Nam Il Kim¹, Seung Il Park, Moon Soo Cho¹, Dae Keun Lee² ¹Chung-Ang University, Korea ²Korea Institute of Energy Research, Korea
- W5P033: MILD OXY-FUEL COMBUSTION OF MODEL GAS FROM BIOMASS PYROLYSIS
Alfonso Chinnici¹, Pino Sabia², Mara de Joannon², Antonio Picarelli², Raffaele Ragucci² ¹University Federico II of Naples, Italy ²IRC-CNR, Italy
- W5P034: MODELING STUDY OF PARTIAL OXIDATION OF METHANE ENHANCED BY LOW TEMPERATURE PLASMA
Alexander Starik¹, Pavel Kuleshov¹, Boris Loukhovitski¹, Vadim Naumov², Nataliya Titova¹ ¹Central Institute of Aviation Motors, Russia ²Institute of Fundamental Problems for High Technology, Russia

- W5P035: COHERENT ANTI-STOKES RAMAN SPECTROSCOPY MEASUREMENT IN A REGENERATIVE MULTI-BURNER FLAMELESS OXIDATION FURNACE
Jie Lu, Eun-Seong Cho, Eric van Veen, Wiebren de Jong, Dirk Roekaerts, Delft University of Technology, The Netherlands
- W5P036: CFD ANALYSIS OF PEROXY-FUEL COMBUSTION
Kirti Bhushan Mishra, BAM Federal Institute for Materials Research and Testing, Germany
- W5P037: COMBUSTION IN POROUS INERT MEDIA: EVALUATION OF FLAME VELOCITY AND NEW CONCEPTS FOR FLAME MONITORING
Felix Marschallek, Matthias Jahn, Alexander Michaelis, Robert Herre, Fraunhofer IKTS, Germany
- W5P038: EXPERIMENTAL STUDY ON DIFFUSION FLAME STABILITY OF *N*-HEPTANE IN A SMALL TUBE CONTAINING POROUS MEDIUM
Junwei Li, Beijing Institute of Technology, China
- W5P039: INFLUENCE OF SAMPLE ORIENTATION AND FUEL DIAMETER ON SMOULDERING OF LIQUIDS FOR APPLICATION TO SELF-SUSTAINING TREATMENT FOR ACTIVE REMEDIATION (STAR)
Rory Hadden¹, Jason Gerhard¹, Guillermo Rein², Jose Torero^{2,1} University of Western Ontario, Canada ²University of Edinburgh, UK
- W5P040: RECENT PROGRESS IN STUDYING EMISSIONS FROM ELECTRIC FIELD EFFECTS ON A SMALL DIFFUSION FLAME
Yu-Chien Chien, Maribel Jaquez-Nunez, Mishal Francis, Joshua Jacobs, Sunny Karnani, Derek Dunn-Rankin, University of California-Irvine, USA
- W5P041: MULTIPHYSICS WELL-STIRRED REACTOR MODELING OF SOLAR-DRIVEN COAL GASIFICATION
Jian Xu, Li Qiao, Jay Gore, Purdue University, USA
- W5P042: EFFECT OF CONCENTRATION OF STEAM IN OXIDIZER ON REFORMING WOODY BIOMASS PRODUCER GAS BY PARTIAL COMBUSTION
*Yuki Kirimura¹, Yasushi Imoto¹, Noriaki Nakatsuka¹, Jun Hayashi¹, Miki Taniguchi², Kenichi Sasauchi², Fumiteru Akamatsu¹
¹Osaka University, Japan ²Chugai Ro Co., Ltd., Japan*
- W5P043: EXPERIMENTAL STUDIES ON COMBUSTION AND NO EMISSION OF NON-PREMIXED FLAMES IN A HIGH FREQUENCY AC ELECTRIC FIELD
Yang Zhang, Hai Zhang, Tsinghua University, China
- W5P044: MULTIPHASE HEAT TRANSFER DURING HYDRATE COMBUSTION
Derek Dunn-Rankin, Melika Roshandell, Peter Taborek, Serah Gutman, University of California-Irvine, USA
- W5P045: ENHANCED EVAPORATION OF NANOFLUID FUELS UNDER INFRARED RADIATION
Yanan Gan, Li Qiao, Purdue University, USA
- W5P046: OXY-FUEL COMBUSTION SUPPORTED BY OXYGEN PERMEABLE INORGANIC MEMBRANES
Jongsup Hong, Patrick Kirchen, Ahmed Ghoniem, Massachusetts Institute of Technology, USA
- W5P047: NUMERICAL STUDY OF CO AND CO₂ FORMATION IN H₂-CH₄ BLENDED FLAME UNDER MILD CONDITION
Amir Mardani¹, Sadegh Tabejamaat^{2,1} Sharif University of Technology, Iran ²Amirkabir University of Technology, Iran
- W5P048: COMPUTATIONAL STUDY OF MILD COMBUSTION AND POLLUTANTS EMISSION CHARACTERISTICS IN A HEATED WALL-CONFINED JET
Chang Bo Oh, Keum Mi Song, Pukyong National University, Korea
- W5P049: A DEVELOPMENT OF COMPACT AUXILIARY HEATER USING TUBULAR FLAME FOR HOME COMBINED HEAT AND POWER
*Noriko Kawai¹, Yoshinori Hisazumi¹, Tsukasa Hori¹, Yosuke Shiraga², Akeshi Kegasa², Tatsuro Tanigawa³, Ryosuke Matsumoto³, Mamoru Ozawa³
¹Osaka University, Japan ²Osaka Gas, Japan ³Kansai University, Japan*
- W5P050: DYNAMIC FLAME STABILIZATION EFFECTS OF PARTIALLY PREMIXED HYDROGEN-AIR FLAMES IN LOW MOMENTUM JETS IN CROSS FLOW CONFIGURATION
Stefan Voss¹, Michael Storch², Dimosthenis Trimis^{1,1} TU Bergakademie Freiberg, Germany ²LTT-Erlangen, Germany
- W5P051: THERMAL DECOMPOSITION OF BIOMASS SURROGATES, CELLULOSE, HEMICELLULOSE AND LIGNIN SLOW STEAM PYROLYSIS
Paola Giudicianni¹, Raffaele Ragucci¹, Antonio Cavaliere^{2,1} IRC-CNR, Italy ²University Federico II of Naples, Italy
- W5P052: EMULATING THE COMBUSTION BEHAVIOR OF REAL JET AVIATION FUELS BY SURROGATE MIXTURES FROM SOLVENT BLENDS
*Frederick L. Dryer¹, Saeed Jahangirian¹, Stephen Dooley¹, Venkatesh Iyer², Thomas Litzinger², Robert Santoro²
¹Princeton University, USA ²Pennsylvania State University, USA*
- W5P053: AN EXPERIMENTAL AND KINETIC MODELING STUDY OF THE OXIDATION OF C7-C14 *N*-ALKANES
Frederick L. Dryer, Peter Veloo, Saeed Jahangirian, Princeton University, USA

- W5P054: HIGH TEMPERATURE IGNITION DELAY TIMES OF C5 PRIMARY ALCOHOLS
Chenglong Tang, Xi'an Jiaotong University, China
- W5P055: EXPERIMENTAL AND MODELING STUDY ON AUTO-IGNITION CHARACTERISTICS OF METHANE/HYDROGEN BLENDS UNDER ENGINE RELEVANT PRESSURE
Yingjia Zhang, Xi'an Jiaotong University, China
- W5P056: EXPERIMENTAL AND MODELING STUDY ON AUTO-IGNITION CHARACTERISTICS OF METHANE/HYDROGEN BLENDS UNDER ENGINE RELEVANT PRESSURE
Jiaxiang Zhang, Xi'an Jiaotong University, China
- W5P057: SHOCK TUBE STUDY OF THE AUTOIGNITION OF RP-3 KEROSENE AT LOW PRESSURES
Ping Li, Sichuan University, China
- W5P058: EXPERIMENTAL AND MODELING STUDY OF THE EFFECTS OF ALKALI METAL ADDITIVES ON THE THERMAL DeNO_x PROCESS
Xiaofeng Guo, Xiaolin Wei, Sen Li, Chinese Academy of Sciences China
- W5P059: EXPERIMENTAL STUDY OF THE STRUCTURE OF LAMINAR PREMIXED FLAMES OF TETRAHYDROFURAN/OXYGEN/ARGON
Luc-Sy Tran, Pierre-Alexandre Glaude, Frédérique Battin-Leclerc, Université de Lorraine, France
- W5P060: REACTION KINETICS AND PHOTOCHEMICAL STUDY ON THE ATMOSPHERIC FATE OF THE BIOFUEL MOLECULES ETHYL LEVULINATE AND GAMMA-VALEROLACTONE
Maria Farkas, Emese Szabo, Adam Illes, Balazs Petri, Dora Zsibritha, Sandor Dobe, Hungarian Academy of Sciences, Hungary
- W5P061: THE RATE OF ENERGY RELEASE DURING HYDROCARBON COMBUSTION IS CONTROLLED BY THE STEADY STATE OF THE RADICAL POOL
John R. Creighton, Consultant, Oakland, CA, USA
- W5P062: COMPARISON OF TWO KINETIC MODELS FOR LIGNOCELLULOSIC BIOMASS DEVOLATILIZATION PROCESS
Krzysztof Czajka, Wojciech Moron, Wieslaw Rybak, Politechnika Wroclawska, Poland
- W5P063: FLOW REACTOR STUDY OF COMBUSTION CHARACTERISTICS OF *N*-DODECANE
Sayak Banerjee, Stanford University, USA
- W5P064: EFFECT OF REACTOR SIZE ON THE IGNITION OF $\text{CH}_3\text{Cl}/\text{Cl}_2$ MIXTURES UNDER UV IRRADIATION
Ivan Nikitin, Ildar Begishev, Anatoly Belikov, Moscow State University, Russia
- W5P065: EXPERIMENTAL AND MODELING STUDY OF THE LOW- AND HIGH-TEMPERATURE OXIDATION OF CYCLOHEXANE IN A JET-STIRRED REACTOR
Zeynep Serinyel, Ophélie Frottier, Olivier Herbinet, Pierre Alexandre Glaude, Frédérique Battin-Leclerc, LRGP-CNRS, France
- W5P066: THEORETICAL INVESTIGATION OF THE HYDROGEN ABSTRACTION FROM FURAN AND ITS DERIVATIVES BY HO_2 AND OH RADICALS
Harish Chakravarty, Ravi Fernandes, RWTH-Aachen University, Germany
- W5P067: KINETICS OF RESONANCE STABILIZED CH_3CCCH_2 RADICAL REACTIONS WITH NO AND NO_2
Matti Rissanen, Raimo Timonen, University of Helsinki, Finland
- W5P068: OPTIMIZATION OF A HYDROGEN COMBUSTION MECHANISM
Tamás Turányi¹, Tibor Nagy¹, Tamás Varga¹, István Gyula Zsély¹, Henry J. Curran²,¹Eötvös University, Hungary²NIU, Galway, Ireland
- W5P069: THEORETICAL STUDY ON THE THERMAL DECOMPOSITION OF 1- AND 2-PHENYLETHANOLS
Yoshinori Murakami, Hachinohe National College of Technology, Japan
- W5P070: COMPARISON OF EXPERIMENTAL AND NUMERICAL FLOW-REACTOR STUDIES IN THE LOW-TEMPERATURE REGIME FOR DIMETHYL ETHER AND ETHANOL
Friederike Herrmann¹, Bernhard Jochim², Patrick Oßwald¹, Liming Cai², Katharina Kohse-Höinghaus¹, Norbert Peters², Heinz Pitsch²
¹Bielefeld University, Germany²RWTH-Aachen University, Germany
- W5P071: OSCILLATORY COOL FLAMES AND TRANSIENT TWO-STAGE IGNITION OF DME/AIR MIXTURE BELOW 500 K UNDER ATMOSPHERIC PRESSURE
Jian Gao, Yuji Nakamura, Hokkaido University, Japan
- W5P072: INVESTIGATION OF DIMETHYL ETHER AS AN ALTERNATIVE CLEANER FUEL
Friederike Herrmann¹, Patrick Oßwald¹, Katharina Kohse-Höinghaus¹, Zhandong Wang², Zhanjun Cheng², Wenhao Yuan², Yizun Wang², Fei Qi²
¹Bielefeld University, Germany²University of Science and Technology of China, China

- W5P073: REDUCTION OF COMPLEX CHEMICAL KINETIC MODELS BY AN ALTERNATE SPECIES ELIMINATION METHOD (ASEM)
Ben Akih-Kumgeh¹, Jeff Berghorson²¹Syracuse University, USA ²McGill University, Canada
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Anthony DeFilippo, Jyh-Yuan Chen, University of California, Berkeley, USA
- W5P075: THE NON-CATALYTIC PARTIAL OXIDATION OF METHANE IN A FLOW TUBE REACTOR USING INDIRECT INDUCTION HEATING—AN EXPERIMENTAL AND KINETIC MODELLING STUDY
Chao'en Li, CSIRO, Australia
- W5P076: A NOVEL APPROACH TO MEASUREMENT OF HEAT SINK OF ENDOTHERMIC HYDROCARBON FUEL UNDER SUPERCRITICAL CONDITION
Xiangyuan Li, Sichuan University, China
- W5P077: AN *AB-INITIO* AND CHEMICAL KINETIC STUDY OF THE HO₂ RADICAL REACTIONS WITH KETONES
Jorge Mendes, Chong-Wen Zhou, Henry J. Curran, National University of Ireland-Galway, Ireland
- W5P078: THERMAL CONVERSION OF ANISOLE
Milena Nowakowska, Olivier Herbinet, Anthony Dufour, Pierre-Alexandre Glaude, CNRS-Nancy, France
- W5P079: A SEMI-DETAILED CHEMICAL MECHANISM FOR GASOLINE: FURTHER VALIDATION AGAINST EXPERIMENTAL DATA ON LAMINAR FLAME SPEEDS OF GASOLINE/O₂/N₂ AND *N*-HEPTANE/*ISO*-OCTANE/AIR MIXTURES
Andrei Lipatnikov, Chen Huang, Valeri Golovitchev, Chalmers University of Technology, Sweden
- W5P080: METHANE CONVERSION AT ELEVATED PRESSURES: EXPERIMENT AND SIMULATION
Fikri Sen, Ulf Bergmann, Burak Atakan, University of Duisburg-Essen, Germany
- W5P081: MODELLING STAGED COMBUSTION OF BIOMASS WITH A REDUCED CHEMICAL KINETICS MECHANISM: FUEL RICH CONDITION
Ehsan Houshfar¹, Øyvind Skreiberg², Terese Løvås¹¹Norwegian University of Science and Technology, Norway ²SINTEF Energy Research, Norway
- W5P082: KINETIC ANALYSIS OF ETHYL IODIDE PYROLYSIS BASED ON SHOCK TUBE MEASUREMENTS
Tamás Varga, István Gyula Zsély, Tibor Nagy, Tamás Turányi, Eötvös University, Hungary
- W5P083: KINBOT: AN AUTOMATED TOOL TO EXPLORE ELEMENTARY REACTIONS
Judit Zádor, Habib N. Najm, Sandia National Laboratories, USA
- W5P084: EXPERIMENTAL AND KINETIC MODELING STUDY OF ETHANOL COMBUSTION AT HIGH PRESSURES AND INTERMEDIATE TEMPERATURES
Hamid Hashemi, Peter Glarborg, Jakob M. Christensen, Technical University of Denmark, Denmark
- W5P085: INVESTIGATION OF THE PERFORMANCE OF HYDROGEN AND WET CO COMBUSTION MECHANISMS
István Gy. Zsély, Carsten Olm, Róbert Pálvölgyi, Tamás Varga, Tibor Nagy, Tamás Turányi, Eötvös University, Hungary
- W5P086: *N*-BUTYLBENZENE OXIDATION IN LOW-TEMPERATURE REGION AND ITS COMPARISON WITH *N*-PROPYLBENZENE
Hisashi Nakamura¹, Daniel Darcy², Marco Mehl³, Colin Tobin², Kenji Yasunaga⁴, John Simmie², Judith Wurmel², Wayne Metcalfe², Syed S. Ahmed⁴, William J. Pitz³, Charles K. Westbrook³, Henry Curran²
¹Tohoku University, Japan ²National University of Ireland-Galway, Ireland ³Lawrence Livermore National Laboratory, USA ⁴National Defense Academy, Japan
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