

Preliminary Day (31st August 2022)			
15:00 - 17:00	Registration for Face-to-Face Attendees. Reception at the new <b>Innovation Park, SPARK Building</b>		
Day One (1st September 2022)			
7:30 - 17:30	Registration for Face-to-Face Attendees		
8:10 - 8:15	Welcoming Statement by Organising Committee		
8:15 - 8:20	Opening Statement - <b>Prof. Colin Riordan (Cardiff University, President)</b>		
8:20 - 8:25	Opening Statement - <b>Dr. Dolf Gielen (Int. Renewable Energy Agency IRENA, Director)</b>		
8:25 - 9:10	Ammonia Energy Keynote Speech: <b>Prof. Alexander Konnov (Lund University)</b>		
9:10 - 9:25	Coffee Break		
9:25 - 11:05	<b>Main Room CSL</b>	<b>Room 2 CSL</b>	<b>Room 3 CSL</b>
	9:25 - 9:45: <i>Investigation of curvature effects on the reactivity of premixed ammonia-air flames.</i> Authors: Karan A, Dayma G, Chauveau C, Halter F. Affiliation: Univ. Orleans and CNRS-ICARE, France - <b>CF01</b>	9:25 - 9:45: <i>Catalytic Studies of Imide-Transition-Metal Composites for Ammonia Decomposition.</i> Authors: Brooker-Davis C, Wood T.J., Makepeace J.W., David W.I.F. Affiliation: Univ. Birmingham, Univ. Oxford, UK - <b>PC01</b>	9:25 - 9:45: <i>Ammonia as a Fuel for MFCs.</i> Authors: Cinti G, Barelli L, Milewski J. Affiliation: Univ. Perugia, Warsaw Univ. Tech. - Italy and Poland <a href="#">[online]</a> - <b>FC01</b>
	9:45 - 10:05: <i>Unraveling pressure effects in laminar flame propagation of ammonia: A comparative study with hydrogen, methane and ammonia/hydrogen.</i> Authors: Li W., Zhang J., Mei B., Fang J., Zhang Y., Cao C., Li Y. Affiliation: Shanghai Jiao Tong and Princeton Univ., China and USA - <b>CF02</b>	9:45 - 10:05: <i>Towards a practical electrochemical process for ammonia production at ambient temperatures and pressures.</i> Authors: MacFarlane D., Du H., Chatti M., Hodgetts R., Cherapanov P., Nguyen C., Matuszek K., Simonov A. Affiliation: Monash Univ., Australia - <b>PC02</b>	9:45 - 10:05: <i>Hydrogen production and Purification via Ammonia Decomposition in a Catalytic Membrane Reactor.</i> Authors: Cechetto V, Di Felice L, Gallucci F. Affiliation: Univ. Tech. Eindhoven (TUE), The Netherlands - <b>FC02</b>
	10:05 - 10:25: <i>Effects of pulse parameters on Non-equilibrium Plasmas-Assisted Ammonia Combustion: A Kinetic Study.</i> Authors: Shahsavari M, Konnov A.A., Valera-Medina A., Jangl M. Affiliation: Univ. Birmingham, Univ. Lund, Cardiff Univ, UK and Sweden - <b>CF03</b>	10:05 - 10:25: <i>Earth-abundant catalysts for ammonia decomposition.</i> Authors: Mahin J., El-Kadi J., Torre-Murciano L. Affiliation: Univ. Cambridge, UK - <b>PC03</b>	10:05 - 10:25: <i>Conversion of aqueous ammonia waste using anode-supported solid oxide cells.</i> Authors: Raghu M., Laycock C.J., Owen G.R., Lloyd G., Guwy A.J. Affiliation: Univ. South Wales, TATA Steel, UK - <b>FC03</b>
	10:25 - 10:45: <i>Investigations on Extinction Limits of CH<sub>4</sub>/NH<sub>3</sub> Non-Premixed Counterflow Flames with High-Temperature Air.</i> Authors: Murakami Y., Tezuka T., Nakamura H. Affiliation: Tohoku Univ, Japan <a href="#">[online]</a> - <b>CF04</b>	10:25 - 10:45: <i>Accurate Ammonia Detection and Reporting in Laboratory Research.</i> Authors: Hodgetts R.Y., MacFarlane D., Simonov A.N. Affiliation: Monash Univ., Australia <a href="#">[online]</a> - <b>PC04</b>	10:25 - 10:45: <i>Air pollution impacts and trade-offs of the road transportation sector.</i> Authors: Rzepinska L, Dedoussi I.C. Affiliation: Faculty of Aerospace Engineering, Delft University of Technology, The Netherlands - <b>ENV01</b>
10:45 - 11:05: <i>Measurements of OH* profiles in hydrogen-ammonia-air counterflow diffusion flames.</i> Authors: Issayev G., Zhu X., Guiberti T.F. Affiliation: KAUST, Saudi Arabia - <b>CF05</b>	10:45 - 11:05: <i>Dynamic parameter simulations for a novel small-scale power to ammonia concept.</i> Authors: Koschwitz P., Bellotti D., Cámara Sanz M., Alcaide-Moreno A., Liang C., Epple B. Affiliation: TUD, Univ. Genoa, CIRCE, Proton Ventures - Germany, Italy, Spain and The Netherlands - <b>PC05</b>	10:45 - 11:05: <i>Ship Design for Safe Ammonia Integration.</i> Author: Beard T. Affiliation: BMT, UK - <b>TL01</b>	
Coffee Break			
11:05 - 11:20	Coffee Break		
11:20 - 13:00	11:20 - 11:40: <i>The acoustic response of hydrogen/ammonia flames.</i> Authors: Duarte Nunes C., Morgans A.S. Affiliation: Imperial College, UK - <b>CF06</b>	11:20 - 11:40: <i>Islanded Ammonia Power Systems for Resilience in Small Island Developing States (SIDS).</i> Authors: Sagela V.N., Rouwenhorst K.H.R., Faria J.A. Affiliation: Univ. Twente, AEA, Proton Ventures - The Netherlands and USA - <b>PC06</b>	11:20 - 11:40: <i>Quantifying the importance of careful weather data selection for techno-economic analysis of green production processes.</i> Authors: Nayak-Luke R., Cesaro Z., Bañares-Alcántara R. Affiliation: UCL, Oxford Univ, UK - <b>TL02</b>
	11:40 - 12:00: <i>Well-stirred reactor with homogeneous plasma for development of chemical kinetic model of plasma, ammonia and air.</i> Authors: Faingold G., Lefkowitz J.K. Affiliation: Technion, Israel - <b>CF07</b>	11:40 - 12:00: <i>Production of Green Ammonia from Agricultural Residues: An Indian Scenario.</i> Authors: Deshmukha S., Santhosh R. Affiliation: IIT Varanasi, India - <b>PC07</b>	11:40 - 12:00: <i>Life Cycle Analysis of Ammonia Based Private Road Transport.</i> Authors: Boero A., Mercier A., Mounaim-Rousselle C., Valera-Medina A., Ramirez A. Affiliation: ESPOL, Univ. Orleans, Cardiff Univ. - Ecuador, France, UK - <b>TL03</b>
	12:00 - 12:20: <i>Simultaneous measurements of NH<sub>2</sub> and major species and temperature with a single &lt;math&gt;NO&lt;/math&gt; excitation scheme in ammonia combustion at atmospheric pressure.</i> Authors: Tang H., Ezenideva D., Magnotti G. Affiliation: KAUST, Saudi Arabia - <b>CF08</b>	12:00 - 12:20: <i>Ramping capabilities of absorption-enhanced ammonia synthesis emerging technologies.</i> Authors: Torre-Murciano L., Smith C. Affiliation: Univ. Cambridge, UK - <b>PC08</b>	12:00 - 12:20: <i>Technoeconomic Evaluation of Offshore Green Ammonia Production using Tidal and Wind Energy in the Pentland Firth.</i> Authors: Driscoll H., Salmon N., Bañares-Alcántara R. Affiliation: Univ. Oxford, UK - <b>TL04</b>
	12:20 - 12:40: <i>On the effect of NH<sub>3</sub> on CH<sub>4</sub> oxidation regimes.</i> Authors: Manna M.V., Sabia P., Ragucci R., de Joannon M. Affiliation: Univ. Studi Federico II and STEM5-CNR, Italy - <b>CF09</b>	12:20 - 12:40: <i>Power to Ammonia, Ammonia to Power.</i> Author: Liang C. Affiliation: Proton Ventures, The Netherlands - <b>PC09</b>	12:20 - 12:40: <i>Evaluating the Sustainability of Ammonia Fuelled Mini-Tractor for Orchard Operations.</i> Authors: Proniewicz M., Petela K., Szlek A., Adamczyk W. Affiliation: Silesian Univ. Tech. Poland - <b>TL05</b>
	12:40 - 13:00: <i>Comparative study on the laminar flame speed enhancement of Ammonia with Hydrogen and Methane addition.</i> Authors: Zitouni S., Brequigny P., Mounaim-Rousselle C. Affiliation: Orleans Univ., France - <b>CF10</b>	12:40 - 13:00: <i>Holistic Decarbonisation of Internal Combustion Engines through Synergies in Hydrogen-Base Energy Vectors.</i> Authors: Doustadar O., Zeraati-Rezaei S., Herreros J., Tsolakis A. Affiliation: Univ. Birmingham, UK - <b>PC10</b>	12:40 - 13:00: <i>Integrated Process of Solar Pyrolysis of Natural Gas to Produce Turquoise Hydrogen, Ammonia, and Urea for Fuel Cell Power Production.</i> Authors: Seklani Y., Bicer Y. Affiliation: Hamad Bin Khalifa Univ., Qatar <a href="#">[online]</a> - <b>TL06</b>
Lunch with Poster Session			
13:00 - 14:00	14:00 - 14:20: <i>Ignition of ammonia/hydrogen/air mixtures by electrical discharges.</i> Authors: Markus D., Yu C., Essmann S., Shu B., Maas U. Affiliation: PTB and KIT, Germany - <b>CF11</b>	14:00 - 14:20: <i>Solar-Thermal Ammonia Production via a Nitride Looping Cycle.</i> Authors: Ambrrosini A., Bush H.E., Ermanoski I., Gao X., Loutzenhiser P.G., Miller J.E., Nguyen N., Sulman Rashid, Stechel E.B. Affiliation: SANDIA Nat. Lab., Arizona State Univ., Georgia Tech., USA - <b>PC11</b>	14:00 - 14:20: <i>The relationship between plant flexibility and optimum cost for green ammonia production.</i> Authors: Salmon N, Bañares-Alcántara R. Affil. Oxford Univ., UK - <b>TL07</b>
	14:20 - 14:40: <i>Investigation of laminar ammonia-hydrogen flames using simultaneous PIV and chemiluminescence imaging.</i> Authors: Ahmed P., Cosway B., Talibi M., Balachandran R. Affiliation: UCL, UK - <b>CF12</b>	14:20 - 14:40: <i>Numerical investigation of favorable injection strategies in an ammonia-diesel dual-fuel CI engine.</i> Authors: Pedersen K.A., Lewandowski M T., Pasternak M., Netzer C., Løvås T. Affiliation: NTNU, LOGE - Norway, Poland - <b>ICE01</b>	14:20 - 14:40: <i>Direct numerical simulations of ammonia spray jets at different ambient temperature.</i> Authors: Angellilli L, Ciottoli P.P., Herdandez-Perez F., Valarani M., and Im H. Affiliation: KAUST, Univ. Rome Saudi Arabia and Italy - <b>ENV2</b>
	14:40 - 15:00: <i>Experimental Study of Ammonia-Hydrogen-Methane cofiring in a Turbulent Reactor.</i> Authors: Gahfif M., Arunthanayothin S., Battin-Leclerc F., Faravelli T., Stagni A., Herbinet O. Affiliation: Univ. de Lorraine, Politec. de Milano, France and Italy - <b>CF13</b>	14:40 - 15:00: <i>Characterization of the Soot Emissions formed in an Ammonia-Diesel Engine.</i> Authors: Zaher M., Yousefi A., Dadsetan M., Guo H., Thomson M. Affiliation: Univ. Toronto, NRC, Ain Shams Univ - Canada and Egypt <a href="#">[online]</a> - <b>ICE02</b>	14:40 - 15:00: <i>Numerical Study on Reducing Deformation Hazards of Hydrogen Transportation through Ammonia Blending Techniques.</i> Authors: Abdel-Aziz F., Abdel-Raheem M.A., Yehia M.A. Affiliation: Cairo Univ., Egypt - <b>ENV3</b>
	15:00 - 15:20: <i>Experimental Investigation of Ammonia-Methanol mixtures in a Plug-Flow Reactor.</i> Authors: Welp A., Rudolph C., Atakan B. Affiliation: Univ. Duisburg-Essen, Germany - <b>CF14</b>	15:00 - 15:20: <i>Experimental investigation of the required breakdown voltage and ignition energy for an ammonia fuelled SI-engine.</i> Authors: Klüssmann J.N., Østerby T., Ludvig R. Ekknud L.R., Anders Ivarsson A., Jespersen M.C. Affiliation: TUD, Denmark - <b>ICE03</b>	15:00 - 15:20: <i>Quantification of Interpolation Error in Flamelet Generated Manifold Tabulation in an Unresolved Progress Variable Subspace.</i> Authors: Kovaleva M., Rieth M., Crayford A., Valera-Medina A., Chen J.H. Affiliation: Cardiff Univ., SANDIA Nat. Lab. - UK and USA - <b>ENV4</b>
	15:20 - 15:40: <i>Effect of Radiation on Spherically Propagating Ammonia-Air and Ammonia/Methane-Air Flames.</i> Authors: Faghil M., Valera-Medina A., Paykani A. Affiliation: Univ. Hertfordshire, Cardiff Univ. UK - <b>CF15</b>	15:20 - 15:40: <i>Ammonia as alternative fuel for energetic sector.</i> Authors: Adamczyk W., Przybyla G., Żmudka Z., Petela K., Szlek A., Bialecki R., Peczkis G., Proniewicz M., Ziolkowski L., Pasternak M., Lewandowski M., Lovas T., Emberson D., Nadimi E. Aff. : Silesian Univ. Tech., LOGE Polska, NTNU - Poland and Norway - <b>ICE04</b>	15:20 - 15:40: <i>Simulation study on ammonia/COG burning in the two-stage burner and basic combustion characteristics of ammonia/hydrogen.</i> Authors: Lu A., Yang J., Morsy M., Yang J. Affiliation: Univ. Leeds, Chang'an Univ. - UK and China - <b>ENV5</b>
Coffee Break			
15:40 - 17:30	15:50 - 16:10: <i>Effects of wet combustion on NOx emissions reduction in laminar premixed ammonia/hydrogen/air flames: an analysis of NO formation pathways.</i> Authors: Karimkashi S., Tamadonfar P., Kaario O., Vuorine V. Affiliation: Aalto University, Finland - <b>CF16</b>	15:50 - 16:10: <i>Development of a Chemical Kinetic Modelling Methodology for Ammonia Internal Combustion Engines.</i> Authors: Hooker J., Panesar A., Atkins P., Morgan R. Affiliation: Univ. Brighton, UK - <b>ICE05</b>	15:50 - 16:10: <i>NOx Emission Comparison of Methane/Ammonia Fuels.</i> Author: Celik M.S. Affiliation: Bingol Univ., Turkey <a href="#">[online]</a> - <b>ENV6</b>
	16:10 - 16:30: <i>OH and NO measurements in ammonia flames at low-pressure using LIF and absorption.</i> Authors: Lamoureux N., El Baba N., Desgroux P. Affiliation: Univ. Lille, France - <b>CF17</b>	16:10 - 16:30: <i>Experimental study of RCCI engine - Ammonia combustion with diesel pilot injection.</i> Authors: Dupuy A., Brequigny P., Schmid A., Frapolli N., Mounaim-Rousselle C. Affiliation: Univ. Orleans, WinGD - France and Switzerland - <b>ICE06</b>	16:10 - 16:30: <i>Numerical Analysis of NH<sub>3</sub>-H<sub>2</sub>/SynGas Fired Burner with Various Operating Conditions in the BERL Combustor.</i> Authors: Medhat M., Khalifa A., Yehia M.A. Affiliation: Cairo Univ., Egypt - <b>ENV7</b>
	16:30 - 16:50: <i>A study of nitric oxide and major species in an ammonia/air flame with Raman spectroscopy aimed for kinetic model validation.</i> Authors: Zubairova A., Kim H., Aldén M., Brackmann C. Affiliation: Lund Univ., Sweden <a href="#">[online]</a> - <b>CF18</b>	16:30 - 16:50: <i>Testing of DME/Ammonia and DME/Propane mixtures as alternative CI single fuels for marine engines using modified IQT.</i> Authors: Knaack R., Ivarsson A., Dalsgaard T. Affiliation: TUD, Denmark - <b>ICE07</b>	16:30 - 16:50: <i>Numerical Investigation of RMS Properties of Turbulent CH<sub>4</sub>/NH<sub>3</sub> Co-Combustion.</i> Authors: Füzési D., Wang S., Chong T.C., Józsa V. Affiliation: Budapest Univ. Tech. Econ., Shanghai Jiao Tong - Hungary and China <a href="#">[online]</a> - <b>ENV8</b>
	16:50 - 17:10: <i>Shock-Turbulence Measurements of Ammonia/Methanol Oxidation at Low Pressure using Laser Absorption Spectroscopy.</i> Authors: Parambath H., Nadiri S., Ramalingam A., Qu Zhecao., Shu B., Agarwal S., Fernandes R. Affiliation: PTB, Germany - <b>CF19</b>	16:50 - 17:10: <i>Ammonia direct injection to CI engine.</i> Authors: Przybyla G., Adamczyk W., Ziolkowski L., Peczkis G., Nadimi E., Żmudka Z., Proniewicz M., Sare M., Emberson D. Affiliation: Silesian Univ. Tech., GZM, NTNU - Poland and Norway - <b>ICE08</b>	16:50 - 17:10: <i>Simulating Aerosol-Induced Flame Instability of Ammonia Aerosol Combustion.</i> Authors: Wareing C.J., Van Loo S., Yang J. Affiliation: Univ. Leeds, UK - <b>ENV9</b>
	17:10 - 17:30: <i>Experimental and Numerical Study of Laminar Flames Speed of Ammonia/Methanol and Ammonia at High Pressure and Temperature.</i> Authors: Pelé R., Dayma G., Brequigny P., Halter F., Mounaim-Rousselle C. Affiliation: Univ. Orleans, France - <b>CF20</b>	17:10 - 17:30: <i>Spark-Assisted Compression-Ignition of Ammonia-Hydrogen Blends: A Preliminary Combustion Analysis.</i> Authors: Kane S.P., Swift E., Northrop W.F. Affiliation: Univ. Minnesota, USA - <b>ICE09</b>	17:10 - 17:30: <i>Combustion and Emission Characteristics of Ammonia/Hydrogen/Nitrogen-Air Premixed Flames in Intense Sheared Turbulence.</i> Authors: Rieth M., Gruber A., Chen J. Affiliation: SANDIA Nat. Lab., SINTEF - USA and Norway <a href="#">[online]</a> - <b>ENV10</b>
17:30 - 17:35	Closure Day One - <b>Prof. Karen Holford (Chair of the Royal Academy of Engineering, Research Committee)</b>		
18:30 - 20:30	Symposium Dinner at <b>Aberdare Hall</b>		

Day Two (2nd September 2022)		
8:00 - 8:05	Welcoming Statement by Organising Committee	
8:05 - 8:15	Opening Statement - <b>Dr. John Murton (UK's COP26 Envoy)</b>	
8:15 - 9:00	Ammonia Energy Keynote Speech: <b>Prof. Bill David (Oxford University)</b>	
9:00 - 9:15	Coffee Break	
9:15 - 10:55	9:15 - 9:35: <i>Characterizing ammonia/hydrogen and nitric oxide interaction with oxygen-free outwardly propagating spherical flame method.</i> Authors: J. Zhang, J. Fang, T. Lian, S. Han, W. Li, Z. Xi, Y. Li. Affiliation: Shanghai Jiao Tong, China - <b>CF21</b>	9:15 - 9:35: <i>Laminar burning velocities of ternary ammonia-hydrogen-methane/air mixtures.</i> Authors: Zitouni S., Zayoud A., Brequigny P., Jeanmart H., Contino F., Mounaim-Rousselle C. Affiliation: Univ. Orleans, Univ. Catholique de Louvain - France and Belgium - <b>CF26</b>
	9:35 - 9:55: <i>Study on NH3/CH4 Combustion in Tubular Swirl Flame Burner.</i> Authors: Zhang Y., Li T., Shi B., Wei X. Affiliation: Chinese Acad. Sciences, Beijing Inst. Tech. China [online] - <b>CF22</b>	9:35 - 9:55: <i>Chemical Structure of Premixed Burner Stabilized Ammonia/Hydrogen/O2/Air Flames at Elevated Pressures.</i> Authors: Osipova K.N., Shmakov A.G. Affiliation: Voevodsky Inst. Chem. Kinetics Combust. Russia - <b>CF27</b>
	9:55 - 10:15: <i>Flame characteristics study of preheated ammonia combustion.</i> Authors: Chen Y., Su Y., Yu Y., Zhang B. Affiliation: Qingdao Univ. Sci. Tech. China - <b>CF23</b>	9:55 - 10:15: <i>Ignition delay times of NH3 - Experimental and numerical study.</i> Authors: Samson R., Mounaim-Rousselle C., Foucher F. Univ. Orleans, France - <b>CF28</b>
	10:15 - 10:35: <i>Burning velocity and flame structure of ammonia/air turbulent premixed flames at high pressure and high temperature.</i> Authors: Nagaoka T., Kanoshima R., Kudo T., Hayakawa A., Kobayashi H. Affiliation: Tohoku Univ., Japan [online] - <b>CF24</b>	10:15 - 10:35: <i>Flame Speed Measurements of Ammonia-Hydrogen Mixtures.</i> Authors: Kim G., Winquist M., Plerro M., Rahman R.K., Subbaraman G., Steele R., Vasu S.S. Affiliation: Univ. Central Florida, GTI Energy, EPRI - USA - <b>CF29</b>
	10:35 - 10:55: <i>Prediction of Laminar Burning Velocities for NH3/H2/Air Mixtures using Machine Learning Techniques.</i> Authors: Ustun Cihat E., Faghig M., Tayarani-Najaran M-H., Valera-Medina A., Paykani A. Affiliation: Univ. Hertfordshire, Cardiff Univ. UK - <b>CF25</b>	10:35 - 10:55: <i>CFD Modelling and Simulations of Methane and Ammonia Injection in a Constant-Volume Chamber and High Recirculation Combustion System.</i> Author: Chasos C. Affiliation: Frederick Univ., Cyprus <b>CF30</b>
10:55 - 11:10	Coffee Break	
11:10 - 12:50	11:10 - 11:30: <i>Effects of oxygen enrichment on flame shapes and emissions of premixed ammonia/air swirl flames in a gas turbine model combustor.</i> Authors: Liu Z., Zhang Y., Han S., Lian T., Li W., Li Y. Affiliation: Shanghai Jiao Tong, China [online] - <b>AP01</b>	11:10 - 11:30: <i>Applicability of strained premixed flamelet approach to numerical simulation of ammonia flame.</i> Authors: Kai R., Ayukawa S., Yunoki K., Kurose R. Affiliation: Kyoto Univ., Mitsubishi Heavy Inds., Japan [online] - <b>AP19</b>
	11:30 - 11:50: <i>Effects of Ammonia Substitution on Explosion Limits of Methane.</i> Authors: Guo Y., Ying W., Chen A., Xiao H., Li J., Chen G. Affiliation: Guangzhou Maritime Univ., Guangdong Univ. Tech. China - <b>AP02</b>	11:30 - 11:50: <i>Interactions between Propagating Ammonia-Hydrogen-Air Detonation and Ammonia Spray Cloud.</i> Authors: Zhu R., Li G., Leach F., Davy M. Affiliation: Univ. Oxford, Beihang Hangzhou Innov. Inst. Yuhang - UK and China - <b>AP13</b>
	11:50 - 12:10: <i>Study on Combustion of Synthetic Gaseous Fuels with Ammonia Content.</i> Authors: Czyzewski P., Slefarski R., Golebiewski M. Affiliation: Poznan Univ. Tech., Poland - <b>AP03</b>	11:50 - 12:10: <i>Numerical Study of Ammonia Spray with a GDI Engine Injector.</i> Authors: Battistoni M., Zempi J., Pandolfi A., Rousselle C., Pelé R., Brequigny P., Hespel C. Affiliation: Univ. Perugia, Univ. Oviedo, Univ. Orleans - Italy, Spain and France - <b>AP04</b>
	12:10 - 12:30: <i>Nitriding Effects of Ammonia Flames on Metal Walls under Different Surface Temperatures.</i> Authors: Wang D., Lee M., Suzuki Y. Affiliation: Univ. Tokyo, Japan - <b>AP04</b>	12:10 - 12:30: <i>Large eddy simulations of turbulent non-premixed NH3/H2 jet flames at elevated pressure using principal component analysis coupled with deep neural networks.</i> Authors: Abdelwahid S., Malik M.R., Hammoud H.A.A.K., Hernández Pérez F.E., Ghanem B., Im H.G. Affiliation: KAUST, Saudi Arabia - <b>AP18</b>
	12:30 - 12:50: <i>NO production characteristics of premixed ammonia/methane turbulent swirling flame.</i> Authors: Wang Y.Q., Wang P., Cheng K., Mao C.L., Liu W.F., Yin Z.C., Ferrante A. Affiliation: Jiangsu Univ., Centro Combust. Ambiente Sri. China and Italy [online] - <b>AP05</b>	12:30 - 12:50: <i>On the combustion modes of ammonia/n-heptane dual fuel spray combustion: 2D DNS.</i> Authors: Xu S., Treacy M., Bai X.S. Affiliation: Lund Univ., Sweden [online] - <b>AP06</b>
12:50 - 13:50	Lunch with Poster Session	
13:50 - 15:30	13:50 - 14:10: <i>Ammonia/Methane Dual-Fuel Injection and Co-Burning Strategy in a Swirl Flame Combustor for Control of Pollutant Emissions.</i> Authors: Chong C.T., Wang S., Xie T., Józsa V., Ng J.H. Aff.: Shanghai JT, Budapest Univ. Tech. Econ. Univ. Southampton Malay. - China, Hungary and Malaysia [online] - <b>AP06</b>	13:50 - 14:10: <i>Reduced order combustion modelling with the Flamelet Generated Manifold method for turbulent ammonia/hydrogen flames.</i> Authors: Mukundakumar N.N., Bastiaans R.J.M. Affiliation: TUE, The Netherlands - <b>AP07</b>
	14:10 - 14:30: <i>Ammonia combustion in inert porous media burners: systematic experimental characterization and chemical kinetics analysis.</i> Authors: Vignat G., Zirwes T., Toró-Garza E.R., Boigné E., Trimis D., Ihme M. Affiliation: Stanford Univ., KIT - USA and Germany [online] - <b>AP07</b>	14:10 - 14:30: <i>Testing of Kinetic Mechanisms using a Large Amount of Experimental Data on NH3/H2 and NH3/SynGas Combustion.</i> Authors: Szanthoffer A.Gy., Zsély I.Gy., Kawka L., Papp M., Turányi T. Affiliation: ELTE Eötvös Loránd Univ., Hungary - <b>AP08</b>
	14:30 - 14:50: <i>NH3 blend combustion in MILD conditions.</i> Authors: Ariemma G.B., Sorrentino G., Sabia P., de Joannon M., Ragucci R. Affiliation: STEMS-CNR, Univ. Naples Federico II, Italy - <b>AP08</b>	14:30 - 14:50: <i>Numerical study on ignition delay times of ammonia blended with dimethyl ether with NO/NO2 addition.</i> Authors: Shi X., Li W., Zhang Y., Han S., Li Y. Affiliation: Shanghai Jiao Tong, China - <b>AP09</b>
	14:50 - 15:10: <i>Influence of the Pilot Power Ratio on the Flame Morphology and NO Emissions of NH3-CH4-Air Combustion Using a Reduced-Scale Micro Gas Turbine Burner.</i> Authors: Avila C., Cardona S., Juaidi M., Younes M., Jamal A., Guiberti T.F., Roberts W.L. Affiliation: KAUST, Saudi Arabia - <b>AP09</b>	14:50 - 15:10: <i>Development of a skeletal chemical kinetic mechanism for the combustion of n-heptane/ammonia blends.</i> Authors: Xu L., Chang Y., Treacy M., Bai X.S. Affiliation: Lund Univ., Dalian Univ. - Sweden and China [online] - <b>AP10</b>
	15:10 - 15:30: <i>Novel Trigeneration Gas Turbine Cycle Powered by Humidified Ammonia/Hydrogen with Ammonia Refrigeration.</i> Authors: Guteša Božo M., Mashruk S., Alnajideen M., Valera-Medina A. Affiliation: Termoinžinjering d.o.o., Cardiff Univ. - Serbia and UK [online] - <b>AP10</b>	15:10 - 15:30: <i>NO reduction mechanisms during the combustion of NH3/CH4 mixtures.</i> Authors: Alzqueta M.U., Abián M., Sieso L., Mercader V.D., Elvira I. Affiliation: Univ. Zaragoza, Spain - <b>AP11</b>
15:30 - 15:45	Coffee Break	
15:45 - 17:25	15:45 - 16:05: <i>Investigation of NOx emissions of high-pressure ammonia-methane-air premixed swirling flame with different swirl intensities.</i> Authors: Wang G., Cardona S., Guiberti T.F., Roberts W.L. Affiliation: KAUST, Saudi Arabia - <b>AP11</b>	15:45 - 16:05: <i>A study on the combustion behaviour of ammonia blended with dimethyl and diethyl ether: Theory and Kinetic Modelling.</i> Authors: Shrestha K.P., Giri B.R., Mai T.V.T., Huynh L.K., Mauss F. Affiliation: Brandenburg Univ. Tech., KAUST, Int. Univ. Sci. - Germany, Saudi Arabia, Vietnam - <b>AP12</b>
	16:05 - 16:25: <i>Stability limits of propane/ammonia/hydrogen ternary blends for an industrial scale swirl burner.</i> Authors: Mashruk S., Alnasif A., Tatcher J., Rudman J., Peronski L., Okafor E.C., Valera-Medina A. Affiliation: Cardiff Univ., Energet, FloGas, Element-Energy, Kyushu Univ. - UK and Japan - <b>AP12</b>	16:05 - 16:25: <i>NH2* Chemiluminescence During NH3 Oxidation in a Shock Tube.</i> Authors: Khan-Ghauri M., Gregoire C.M., Mathieu O., Petersen E.L. Affiliation: Texas A&M, USA [online] - <b>AP13</b>
	16:25 - 16:45: <i>Co-Firing of Ammonia and Biomass in a Pilot Scale Fluidized Bed Reactor: A Numerical Analysis for Coal Phase-Out.</i> Authors: Cardoso J., Silva V., Chavando J., Eusébio D., Hall M. Affiliation: Univ. Lisboa, Polyt. Inst. Portalegre, Univ. Aveiro, Univ. Texas at Austin - Portugal and USA [online] - <b>AP13</b>	16:25 - 16:45: <i>An experimental and modeling study on the laminar burning velocities of ammonia/oxygen/argon mixtures.</i> Authors: Jundie C., Lubrano Lavadera M., Konnov A.A. Affiliation: Lund Univ. Sweden - <b>AP14</b>
	16:45 - 17:05: <i>Effects of stratified H2 injection in premixed ammonia/hydrogen/air swirling flames.</i> Authors: Mashruk S., Alnasif A., Hao S., Navaratne R., Guiberti T., Valera-Medina A. Affiliation: Cardiff Univ., KAUST - UK and Saudi Arabia - <b>AP14</b>	16:45 - 17:05: <i>Comprehensive reaction mechanism for Ammonia/Methanol combustion.</i> Authors: Nadiri S., Shu B., Fernandes R. Affiliation: PTB, Germany [online] - <b>AP15</b>
	17:05 - 17:25: <i>Emissions of Premixed Jet Flames with Ammonia Addition.</i> Authors: Jójka J., Slefarski R., Jankowski R. Affiliation: Poznan Univ. Tech., Poland - <b>AP15</b>	17:05 - 17:25: <i>Performance investigation of currently available reaction mechanisms in the estimation of NO measurements: a comparative study.</i> Authors: Alnasif A., Mashruk S., Hayashi M., Hayakawa A., Valera-Medina A. Affiliation: Cardiff Uni., Tohoku Univ. - UK and Japan - <b>AP16</b>
17:25 - 18:00	Closure of Symposium: <b>Mr Trevor Brown (President of the Ammonia Energy Association)</b>	
18:00 - 18:05	Final Remarks and Official Closure of the event	
Day Three (3rd September 2022)		
8:30 - 17:00	Visit to RAL Ammonia Demonstrator and Free time in Oxford OR Visit to GTRC (Cardiff University) and Free time in St Fagans	

Health and Safety Workshop  
(by invitation)

Available Rooms at the CSL for meetings

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Fuel Cells  
Combustion Fundamentals  
Production and Catalysts

LCA, Techno-economics & H&S  
Internal Combustion Engines  
Combustion Applications

Environmental Impacts  
CFD Modelling  
Reaction Modelling