

**2022 Spring Technical Meeting of the Central States Section of The Combustion Institute
Wayne State University, Detroit, MI
15 – 17 May 2022**

Sunday, 15 May 2022

4:00 – 6:30 Registration: Second Floor of Student Center

6:00 – 8:00 Welcome Reception: Ballroom, Second Floor of Student Center

Monday, 16 May 2022

7:00 - 4:00 Registration: Second Floor of Student Center

7:00 - 8:00 Continental Breakfast: University Towers Cafe

8:00 – 8:15 Opening Remarks and Announcements in Ballroom, Second Floor of Student Center:
Waruna Kulatilaka, Chair-Elect, CSSCI and **Omid Samimi-Abianeh**, Local Host

8:15 - 9:15 Plenary Lecture in Ballroom, Second Floor of Student Center: **Dr. Kuo-Cheng (Steven) Lin**, Air Force Research Laboratory (AFRL)
Title: *Exploration of Liquid Sprays Relevant to High-Speed Air-Breathing Propulsion Systems Using X-Ray Diagnostics*
Session Chair: S.F. Son

9:15 - 9:25	Transition to Morning Sessions			
	Detonations I Hilberry A Session Chair: A.K. Agrawal	Laminar Flames I Hilberry B Session Chair: C. Mulvihill	Alternate Fuels & Emissions I Hilberry C Session Chair: M. Tomar	Fire/Industrial Hilberry EF Session Chair: D. Witkowski
09:25 - 9:45	1A01: Influence of liquid phase evaporation on one-dimensional detonation propagation for cryogenic hydrogen/oxygen mixtures <i>J.G. Smith, B. McN Maxwell Case Western Reserve University</i>	1B01: Experimental measurement of the rapid mixing of fuel and air in a multi-element diffusion (Hencken) burner <i>Q. Meng¹, C. Banyon², A.L. Kastengren², M.S. Wooldridge¹, R.S. Tranter² ¹University of Michigan ²Argonne National Laboratory</i>	1C01: Comparison of lean blowout achieved by increasing the airflow for four national jet fuel combustion program fuels <i>K.M. Tacina, Y.R. Hicks, T.G. Capil NASA Glenn Research Center</i>	1D01: Effects of confinement on opposed-flow flame spread over thin solids in microgravity <i>A. Sharma¹, Y. Li¹, Y.-T. T. Liao¹, P.V. Ferkul², M.C. Johnston³, C. Bunnell⁴ ¹Case Western Reserve University ²USRA, NASA Glenn Research Center ³National Aeronautics and Space Administration ⁴ZIN Technologies</i>
9:45 - 10:05	1A02: Detonation re-initiation behind an obstacle using a global 4-step combustion model <i>G. Floring, M. Peswani, B. McN. Maxwell Case Western Reserve University</i>	1B02: Methane laminar flame speed measurement at high gas temperatures using RCM-flame <i>T. Goyal, O. Samimi-Abianeh Wayne State University</i>	1C02: CO₂ recycling using catalytic corn stover gasification <i>R. Roncancio¹, A. Bora^{1,2}, J.P. Gore¹ ¹Purdue University ²Tezpur University</i>	1D02: Material degradation during combustion and flame spread <i>I.S. Wichman¹, S. Hossain^{1,2} ¹Michigan State University ²E&PS Core R&D, Dow Chemical</i>

	Detonations I Hilberry A Session Chair: A.K. Agrawal	Laminar Flames I Hilberry B Session Chair: C. Mulvihill	Alternate Fuels & Emissions I Hilberry C Session Chair: M. Tomar	Fire/Industrial Hilberry EF Session Chair: D. Witkowski
10:05 - 10:25	1A03: Simulating the critical regime following detonation diffraction in a weakly unstable mixture <i>M. Peswani, G. Floring, B. McN. Maxwell Case Western Reserve University</i>	1B03: Investigation on the effect of adsorption tendency of ammonia in a spherically propagating flame apparatus and its impact on laminar flame speed <i>Y.M. Almarzooq, S.A. Alturaiji, M.A. Turner, E.L. Petersen Texas A&M University</i>	1C03: Comparing the effect of reference velocity for flame structure and speciation in Jet fuels A-2 and C-4 <i>Y.R. Hicks, T.G. Capil, K.M. Tacina NASA Glenn Research Center</i>	1D03: Ignition propensity of structural materials exposed to multiple firebrands in Wildland-Urban Interface (WUI) fires: Effects of firebrand distribution and ambient wind <i>B. Kwon, Y.-T. T. Liao Case Western Reserve University</i>
10:25 - 10:45	1A04: Wave mode characteristics of a radial rotating detonation engine <i>D.G. Langner, A. Gupta, D.A. McClinton, A.K. Agrawal The University of Alabama</i>	1B04: Experimental and computational structural evaluation of ammonia-hydrogen and air non-premixed counterflow diffusion flame <i>C.F. Goertemiller, D.E. Thomas, W.F. Northrop University of Minnesota</i>	1C04: Estimation of UNIFAC group composition of fuels using hydrocarbon group type analysis <i>J.M. Mehta, P.T. Lynch, K. Brezinsky University of Illinois at Chicago</i>	1D04: Ammonia for industrial combustion <i>S. Londerville¹, M. Whelan¹, C. Baukal², A. Gueniche³, P. Newman⁴ ¹John Zink Hamworthy Combustion, Sacramento, CA ²John Zink Hamworthy Combustion, Tulsa, OK ³John Zink International Luxembourg, Dudelange, Luxembourg ⁴Hamworthy Combustion Engineering</i>
10:45 - 11:05	BREAK			
	Diagnostics I Hilberry A Session Chair: O. Samimi-Abianeh	Laminar Flames II Hilberry B Session Chair: M.W. Renfro	Reaction Kinetics I Hilberry C Session Chair: S. Elliott	Indust. & Applied Hilberry EF Session Chair: C.E. Baukal
11:05 - 11:25	1A05: Simultaneous Kr thermometry and H atom measurements in flames using a single, broadband femtosecond laser <i>P. Parajuli, M. Hay, W.D. Kulatilaka Texas A&M University</i>	1B05: Laminar non-premixed flames of gaseous fuel aboard the International Space Station <i>D.P. Stocker NASA Glenn Research Center</i>	1C05: N₂O decomposition: New perspectives on a historically challenging system <i>C.R. Mulvihill, K.B. Moore III, A.W. Jasper, S.J. Klippenstein Argonne National Laboratory</i>	1D05: Computational fluid dynamics modeling of lean blowout dependence on operating conditions in the ARC-M1 gas turbine combustor <i>D. Dasgupta¹, S. Som¹, E. Wood², T. Lee², E. Mayhew³, J. Temme³, C.-B. Kweon³ ¹Argonne National Laboratory ²University of Illinois at Urbana-Champaign ³Vehicle Technology Directorate, Combat Capabilities Development Command Army Research Laboratory, Aberdeen Proving Ground</i>

	Diagnostics I Hilberry A Session Chair: O. Samimi-Abianeh	Laminar Flames II Hilberry B Session Chair: M.W. Renfro	Reaction Kinetics I Hilberry C Session Chair: S. Elliott	Indust. & Applied Hilberry EF Session Chair: C.E. Baukal
11:25 - 11:45	1A06: Species quantification during n-heptane autoignition using filtered natural emission of species <i>J.A. Piehl, O. Samimi-Abianeh Wayne State University</i>	1B06: Experimental and predicted onset of cellular instability in spherically expanding flames <i>M.A. Turner, E.L. Petersen Texas A&M University</i>	1C06: Numerical modeling and experimental measurement of n-heptane autoignition at RCM conditions <i>T. Goyal, M. Molana, O. Samimi-Abianeh Wayne State University</i>	1D06: Spark-ignition imaging of niacin and aluminum dust clouds in the MIKE3 minimum ignition energy testing device <i>C. Schweizer, C.V. Mashuga, W.D. Kulatilaka Texas A&M University</i>
11:45 - 12:05	1A07: Quantification of three-stage n-pentane autoignition using filtered natural emission of species <i>J.A. Piehl, O. Samimi-Abianeh Wayne State University</i>	1B07: Structure and nitric oxide formation in laminar diffusion flames of ammonia-hydrogen and air <i>D.E. Thomas, C. Wadkar, C.F. W. Goertemiller, W.F. Northrop University of Minnesota</i>	1C07: Adiabatic ignition delay measurement in a rapid compression machine <i>M. Molana, J.A. Piehl, O. Samimi-Abianeh Wayne State University</i>	1D07: Experimental investigation of ideal burning conditions for JP-8 in a compact burner <i>M.G. Sandberg, O. Mathieu, E.L. Petersen Texas A&M University</i>
12:05 - 12:25	1A08: A Raman spectroscopy based chemometric approach to predict the derived cetane number of hydrocarbon jet fuels <i>D. Ambre, M. Sheyyab, P. Lynch, K. Brezinsky University of Illinois at Chicago</i>	1B08: Flame characterization using combined progress variable and mixture fraction in a laminar premixed jet in vitiated coflow <i>M.L. McKinney, G. Marie, M.W. Renfro University of Kentucky</i>	1C08: Laminar flame speed, ignition delay time, and CO laser absorption measurements of a gasoline-like blend of pentenes <i>C.M. Grégoire¹, C.K. Westbrook², S.P. Cooper¹, M.A. Turner¹, S.A. Alturaifi¹, O. Mathieu¹, E.L. Petersen¹ ¹Texas A&M University ²Lawrence Livermore National Laboratory</i>	
12:30 - 1:30	LUNCH – University Towers Cafe			
1:30 - 2:30	Plenary Lecture in Ballroom, Second Floor of Student Center: Dr. Peter (Pete) Schihl , U.S. Army CCDC Title: <i>U.S. Army Ground Vehicle Fuels and Internal Combustion Engines Perspective</i> Session Chair: T. Jacobs			
2:30 – 2:50	CSSCI Business Meeting in Ballroom, Second Floor of Student Center			
2:50 – 3:00	Transition to Afternoon Sessions			

	Detonations II Hilberry A Session Chair: B. Maxwell	IC Engines I Hilberry B Session Chair: H.D. Sapro	Theory Modeling Hilberry C Session Chair: K. Senecal
3:00 - 3:20	1A09: Measurements of gas temperature and species concentrations of n-pentane mixture during autoignition <i>M. Molana, O. Samimi-Abianeh Wayne State University</i>	1B09: Investigation of hole-to-hole and shot-to-shot variations of a multi-hole diesel injector under non-evaporating conditions <i>A. Loper, E. Bogdanowicz, J. Bittle, A.K. Agrawal University of Alabama</i>	1C09: Peroxy radical (RO₂) + OH reactions and their relevance in combustion simulations <i>J. Cho, C.R. Mulvihill, S.J. Klippenstein, R. Sivaramakrishnan Argonne National Laboratory</i>
3:20 - 3:40	1A10: Measurements of geometric detonation amplification with C₃H₈, CH₄, and C₂H₄ mixtures using N₂O <i>B. Millard, D. Cuppoletti University of Cincinnati</i>	1B10: Prediction of derived cetane number using only UNIFAC group compositions of hydrocarbon mixtures with machine learning <i>M. Sheyyab, J.M. Mehta, P.T. Lynch, K. Brezinsky University of Illinois at Chicago</i>	1C10: Surrogate fuel chemistry from ReaxFF molecular dynamics <i>F.J. Guzman NASA Glenn Research Center</i>
3:40 - 4:00	1A11: Pulsed microwave energy deposition in a sodium seeded micro-channel detonation <i>F. Reinbacher, J. Lynch, S. Subramaniam, T. Sippel, J.B. Michael Iowa State University</i>	1B11: Compression ignition combustion of a gasoline-diesel blend in a light-duty engine <i>T.H. Kroeger, T.J. Jacobs Texas A&M University</i>	1C11: Enabling high order fluid property models in CFD for supercritical fuel mixing through neural networks and tabulation <i>Z. Harris, A. Agrawal, J. Bittle The University of Alabama</i>
4:00 - 4:20	BREAK		
	Diagnostics II Hilberry A Session Chair: J. Michael	Alternate Fuels & Emissions II Hilberry B Session Chair: N. Sophonrat	Reaction Kinetics II Hilberry C Session Chair: J. Cho
4:20 - 4:40	1A12: Single-laser excitation/detection of NO, O, and O₂ for NO formation studies in flames <i>M. Hay, P. Parajuli, W.D. Kulatilaka Texas A&M University</i>	1B12: Hydrogen blending into a tankless water heater with gas sensors monitoring <i>Y. Zhao, P. Glanville, A. Fridlyand, B. Sutherland Gas Technology Institute</i>	1C12: Pyrolysis rates of bamboo <i>A. Bora^{1,2}, R. Roncancio¹, S. Mahapatra², J.P. Gore¹ ¹Purdue University ²Tezpur University</i>

	Diagnostics II Hilberry A Session Chair: J. Michael	Alternate Fuels & Emissions II Hilberry B Session Chair: N. Soponrat	Reaction Kinetics II Hilberry C Session Chair: J. Cho
4:40 - 5:00	1A13: Optimal channel selection for derived cetane number prediction in non-dispersive near and short-wave IR sensors <i>A. Sutar, A. Dalmiya, M. Sheyyab, W. Wang, K. Brezinsky, P.T. Lynch</i> <i>University of Illinois at Chicago</i>	1B13: Simple autoignition model for the derived cetane number of oxygenated compounds and fuel blends <i>D. Witkowski, M. Groendyk, D.A. Rothamer</i> <i>University of Wisconsin Madison</i>	1C13: A study of the effects of steam addition on ammonia hydrogen air combustion <i>S. Bhaduri, J.P. Gore</i> <i>Purdue University</i>
5:00 - 5:20	1A14: IR based derived cetane number prediction of jet fuels from samples of neat hydrocarbons and their mixtures <i>A. Dalmiya, M. Sheyyab, K. Brezinsky, P.T. Lynch</i> <i>University of Illinois at Chicago</i>	1B14: Flame speciation and structure of a Jet-A fuel and a synthetic iso-paraffinic kerosene fuel using a single-cup lean direct injector <i>T.G. Capil, K.M. Tacina, Y.R. Hicks</i> <i>NASA Glenn Research Center</i>	1C14: Automated construction of fully representative stereochemical reaction mechanisms <i>K.B. Moore III¹, S.N. Elliott¹, A.V. Copan², C.R. Mulvihill¹, L.P. Maffei¹, S.J. Klippenstein¹</i> ¹ Argonne National Laboratory ² Emmanuel College
6:30 - 9:00	Banquet at the Detroit Institute of Arts 5200 Woodward Ave, Detroit, MI 48202 (walking distance from student center)		

Tuesday, 17 May 2022

7:30 - 12:00 Registration: Second Floor of Student Center
7:00 - 8:00 Continental Breakfast: University Towers Cafe
8:00 - 8:05 Announcements in Ballroom, Second Floor of Student Center
Omid Samimi-Abianeh, Local Host

8:05 - 9:05 Plenary Lecture in Ballroom, Second Floor of Student Center: **Dr. Monique McClain**, Purdue University
Title: *Additive Manufacturing of Composite Energetic Materials*
Session Chair: E.L. Petersen

9:05 – 9:25	UG Research Competition Winners Presentations: Ms. Ashely James (University Alabama) and Mr. Jacob Klein (Wayne State University)		
9:25 – 9:35	Transition to Morning Sessions		
	Energetic Materials I Hilberry A Session Chair: M.S. McClain	Novel Combustion Hilberry B Session Chair: A. Ratner	Reaction Kinetics III Hilberry C Session Chair: R. Sivaramakrishnan
9:35 - 9:55	2A01: Additively manufactured micron and nano Al/PVDF ignition sensitivity and burning characterization <i>K. E. Uhlenhake, A.C.C. Hoganson, D.N. Collard, A.D. Brown, J.F. Rhoads, S.F. Son</i> <i>Purdue University</i>	2B01: Plasma coupled flow reactor studies of non-equilibrium plasma-assisted kinetics of iso-octane and n-heptane blended with ethanol <i>K. Bopaiah, N. Tsolas</i> <i>Auburn University</i>	2C01: A study of OH Measurements during auto-ignition of syngas and siloxane mixtures <i>J.H. Kim¹, A.B. Mansfield², M.A. Burnett¹, M.S. Wooldridge¹</i> <i>¹University of Michigan</i> <i>²Eastern Michigan University</i>
9:55 - 10:15	2A02: Oxidation and combustion of Stabilized Lithium Metal Powder (SLMP) <i>K. Estala-Rodriguez, S. Cordova, E. Shafirovich</i> <i>The University of Texas at El Paso</i>	2B02: A novel fuel injection method for diesel engines <i>E.F. Bogdanowicz, A. Loper, J. Bittle, A.K. Agrawal</i> <i>University of Alabama</i>	2C02: High-Temperature shock-tube kinetic measurements of H₂-N₂O mixtures at various N₂ dilution levels <i>T.M. Atherley, O. Mathieu, E.L. Petersen</i> <i>Texas A&M University</i>
10:15 - 10:35	2A03: Development of objective go/no-go criteria for determining the electrostatic sensitivity of novel metal additives <i>K.N. Naude¹, E.R. Wainwright², L. Giri³, W.D. Kulatilaka¹, J.L. Gottfried²</i> <i>¹Texas A&M University</i> <i>²DEVCOM Army Research Laboratory</i> <i>³Bennett Aerospace, Inc.</i>	2B03: Stable versus unstable premixed methane/air combustion in micro-channels <i>A. Kutkut¹, M. Ayoobi², V. Akkerman¹, M.E. Baumgardner³</i> <i>¹West Virginia University</i> <i>²Wayne State University</i> <i>³Gonzaga University</i>	2C03: The role of energy transfer and competing reactions in the thermal and prompt dissociations of allylic radicals <i>J. Cho, A.W. Jasper, Y. Georgievskii, S.J. Klippenstein, R. Sivaramakrishnan</i> <i>Argonne National Laboratory</i>

	Energetic Materials I Hilberry A Session Chair: M.S. McClain	Novel Combustion Hilberry B Session Chair: A. Ratner	Reaction Kinetics III Hilberry C Session Chair: R. Sivaramakrishnan
10:35 - 10:55	2A04: Combustion of metal additives in laminate and composite propellants <i>F.A. Rodriguez, J.C. Thomas, G.D. Lukasik, W.D. Kulatilaka, E.L. Petersen Texas A&M University</i>	2B04: Solution combustion synthesis of iron-based alumina nanocomposites for clean production of hydrogen from fossil fuels <i>Z. Chanoi, V. Reyes, E. Shafirovich The University of Texas at El Paso</i>	2C04: Identification and analysis of chemical reaction modes <i>D. Akinpelu, I. Schoegl Louisiana State University</i>
10:55 - 11:15	BREAK		
	EM2/Diagnostics III Hilberry A Session Chair: E. Shafirovich	IC Engines II Hilberry B Session Chair: M. Ayoobi	Droplets & Sprays Hilberry C Session Chair: P. Lynch
11:15 - 11:35	2A05: Automated image processing method for combustion of iron particles in laminate solid propellants at elevated pressure <i>G.D. Lukasik, J.C. Thomas, F.A. Rodriguez, E.L. Petersen, W.D. Kulatilaka Texas A&M University</i>	2B05: Evaluating energy-assisted compression ignition for high-altitude operation using computational fluid dynamics <i>H.D. Sapr¹, R.P. Hessel¹, E.R. Amezcua¹, D. Rothamer¹, K. Kim², C.M. Kweon², S. Kokjohn¹ ¹University of Wisconsin-Madison ²U.S. Army DEVCOM Army Research Laboratory</i>	2C05: Influence of turbulence on evaporation of fuel droplets <i>A. Jain, S.H. Kim The Ohio State University</i>
11:35 - 11:55	2A06: A quantitative characterization and calibration technique for high-temperature aerosol phosphor thermometry <i>C. Worley, D. Witkowski, D. Rothamer University of Wisconsin-Madison</i>	2B06: DISI engine combustion system calibration and modeling using genetic optimization and machine learning <i>V. Chakrapani¹, C. Zhu¹, A. Mansfield², M. Wooldridge¹ ¹University of Michigan ²Eastern Michigan University</i>	2C06: Statistical description of fuel dispersal in a lean direct injection gas turbine flame using diffuse background illumination <i>K. Johnson, M. Johnson, A. James, A.K. Agrawal University of Alabama</i>
11:55 - 12:15	2A07: High-Speed species-specific imaging of inhomogeneous combustion events through a shock-tube endwall <i>D.J. Mohr, M. Hay, W.D. Kulatilaka, E.L. Petersen Texas A&M University</i>	2B07: In-Cylinder imaging of pre-chamber spark plug flame development in a single-cylinder direct-injection spark-ignition engine <i>Chenyi Zhu, V. Chakrapani, M. Wooldridge University of Michigan</i>	2C07: Modeling multicomponent (preferential) vaporization and combustion properties of jet fuel droplets with accuracy, efficiency, and flexibility <i>S. Singer Marquette University</i>

	EM2/Diagnostics III Hilberry A Session Chair: E. Shafirovich	IC Engines II Hilberry B Session Chair: M. Ayoobi	Droplets & Sprays Hilberry C Session Chair: P. Lynch
12:15 - 12:35	2A08: Turbulent flame characteristics of liquid fueled jet flames using C-X band CH-PLIF <i>J. Schihl¹, A.W. Skiba², C. Carter², A. Gandomkar¹, P.M. Allison¹</i> ¹ Michigan State University ² Air Force Research Laboratory	2B08: Characterizing shot-to-shot variation under reacting diesel-like spray combustion conditions <i>A. Parker, A. Agrawal, J. Bittle</i> <i>The University of Alabama</i>	2C08: Experimental study on the droplet combustion characteristics of different diesel-biodiesel blends derived from waste vegetables oil and animal fat <i>A.S.M. Sazzad Parveg, A. Ratner</i> <i>The University of Iowa</i>
12:35	Box Lunches – Adjourn		
1:30	Optional Wayne State Facility Tours		

2022 CSCI SPRING TECHNICAL PAPER OVERVIEW AUTHORS

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Turner, M.A.	1B03, 1B06, 1C08
Uhlenhake, K.E.	2A01
Wadkar, C.	1B07
Wainwright, E.R.	2A03
Wang, W.	1A13
Westbrook, C.K.	1C08
Whelan, M.	1D04
Wichman, I.S.	1D02
Witkowski, D.	1B13, 2A06
Wood, E.	1D05
Wooldridge, M.S.	1B01, 2C01,
.....	2B06, 2B07
Worley, C.	2A06
Zhao, Y.	1B12
Zhu, C.	2B06, 2B07