

2024 Spring Technical Meeting of the Central States Section of The Combustion Institute
Case Western Reserve University, Cleveland, OH
12 – 14 May 2024

Sunday, 12 May 2024

4:00 – 6:30 Registration: Nord Hall Atrium at Case School of Engineering
6:00 – 8:00 Welcome Reception: Nord Hall Atrium at Case School of Engineering

Monday, 13 May 2024

All Technical Sessions are held at the Tinkham Veale University Center

7:30 - 4:00 Registration: Second-Floor Grand Ballroom Foyer
7:00 - 8:00 Continental Breakfast: Second-Floor Grand Ballroom
8:00 – 8:15 Opening Remarks and Announcements in Second-Floor Grand Ballroom
Waruna Kulatilaka, Chair, CSSCI; **Robert Gao**, Department Chair, CWRU MAE; and **Ya-Ting Liao**, Local Host
8:15 - 9:15 James E. Peters Plenary Lecture in Second-Floor Grand Ballroom: **Prof. Carlos Fernandez-Pello**, University of California, Berkeley
Title: *Wildland fire spot ignition and subsequent growth*
Chair: W. Kulatilaka

9:15 - 9:25	Transition to Morning Sessions			
	Reaction Kinetics Ballroom A Chair: C.R. Mulvihill	Diagnostics Ballroom B Chair: E.L. Braun	Fire Ballroom C Chair: S.F. Son	Internal Combustion Engines Senior Classroom Chair: S. Biswas
9:25 - 9:45	1A01: Chemical kinetic study of the flame-retardant effect of bis(2,2,2-trifluoroethyl) carbonate on ethyl methyl carbonate combustion <i>C. Grégoire, Y.M. Almarzooq, M. Khan-Ghauri, P. Diévert, L. Catoire, E.L. Petersen, O. Mathieu</i>	1B01: The use of NH radical as a heat release rate surrogate for atmospheric ammonia-hydrogen flames <i>A.P. Hardaya, M. Hay, B.S. Soriano, J.H. Chen, W.D. Kulatilaka</i>	1C01: Limiting oxygen volume fraction for flame spread extinction <i>C. Liveretou, C. Scudiere, J. Rivera, L. Estenbach, C. Fernandez-Pello, M. Gollner</i>	1D01: Investigation on effectiveness and misfire behaviors of pre-chamber combustion at idle speed <i>C. Zhu, A. Diagne, M.S. Wooldridge</i>
9:45 - 10:05	1A02: High-pressure shock-tube ignition of syngas under high-CO₂ dilution <i>M. Abulail, M. Intardonato, M. Hay, S.P. Cooper, O. Mathieu, W.D. Kulatilaka, E.L. Petersen</i>	1B02: Flame flashback investigations in hydrogen-enriched low swirl flames using high-speed OH planar laser-induced fluorescence <i>P. Parajuli, P. Strakey</i>	1C02: Numerical simulation of fire and thermal runaway propagation of lithium-ion batteries <i>B. Wang, P. Kannan, Y-T. Liao, M. Parhizi, B. Kwon, S. Madhi, V. Premnath, J. Jeevarajan</i>	1D02: Predictive zero-dimension combustion modeling in internal combustion engines with residual fraction and exhaust gas recirculation <i>C. Feyijimi, C. Depcik</i>

	Reaction Kinetics Ballroom A Chair: C.R. Mulvihill	Diagnostics Ballroom B Chair: E.L. Braun	Fire Ballroom C Chair: S.F. Son	Internal Combustion Engines Senior Classroom Chair: S. Biswas
10:05 - 10:25	1A03: Assessing the homogeneity of propane/air ignition behind reflected shock waves <i>M.G. Sandberg, D. Nativel, S.P. Cooper, M. Intardonato, M.K. Hay, M. Fikri, J. Herzler, W.D. Kulatilaka, E.L. Petersen, C. Schulz</i>	1B03: Evaluation of UNIFAC group composition of gasoline using two-dimensional gas chromatography <i>J.P. Chethalan, P.T. Lynch, K. Brezinsky</i>	1C03: Lateral flame spread over thermally thin fuels in the presence of cross-flow due to forced or natural convection <i>S. Bhattacharjee, F. Panzer</i>	1D03: Evaluation of reduced order modelling of jet fuel combustion within military diesel engines <i>J.A. Piehl, M. Tess</i>
10:25 - 10:45	1A04: Enhancement of weak absorption signals in high throughput shock tube through ensemble averaging <i>A. Moro, R.A. Shaik, A. Sutar, P. Lynch</i>	1B04: Improving property predictions for jet fuels with NDIR channel optimization <i>A. Sutar, K. Brezinsky, P.T. Lynch</i>	1C04: Characterization of 18650 single and multi-cell thermal runaway <i>P. Kannan, B. Wang, Y.-T. Liao, B. Kwon, M. Parhizi, S. Madhi, V. Premnath, J. Jeevarajan</i>	1D04: Sensitivity of inlet port geometry on main chamber mixing study <i>K. Beurlot, T. Jacobs</i>
10:45 - 11:00	BREAK - Second-Floor Grand Ballroom Foyer			
	Reaction Kinetics Ballroom A Chair: M.G. Sandberg	Combustion Theory and Modeling Ballroom B Chair: R. Sivaramakrishnan	Novel Combustion Techniques Ballroom C Chair: D. Dasgupta	Internal Combustion Engines Senior Classroom Chair: K. Srinivasan
11:00 - 11:20	1A05: Experimental and detailed kinetics modeling study of bis(2,2,2-trifluoroethyl) carbonate, a fire suppressant for lithium-ion batteries <i>M. Khan-Ghauri, C.M. Grégoire, K. Kanayama, P. Diévert, S. Takahashi, T. Tezuka, H. Nakamura, L. Catoire, K. Maruta, E.L. Petersen, O. Mathieu</i>	1B05: Revisiting the laminar methane/hydrogen/air counterflow diffusion flame <i>K. Pempek, B.K. Murdock, J.P. Gore, R.P. Lucht</i>	1C05: Non-intrusive flame structure identification strategy for flame type identification in a premixed swirl burner <i>C. Goertemiller, W. Northrop</i>	1D05: Turbulent jet ignition using nanosecond pulsed discharge in an optical constant volume chamber <i>D. Sen, S. Biswas</i>
11:20 - 11:40	1A06: Study of low-to-moderate temperature oxidation of 1,2,4-trimethylbenzene/n-heptane blends <i>S. Hossain, M. Abdulrahman, P. Lynch, K. Brezinsky</i>	1B06: Analysis of coupled radiative flamelet generated manifolds for solid fuel opposed flow flame spread in microgravity <i>K.L. Budzinski, P.E. DesJardin</i>	1C06: Wood stove with forced convection for rich quench lean combustion <i>A. McClinton, A.K. Agrawal</i>	1D06: Optical investigation of propane-dimethyl ether (DME) fuel blends under compression-ignition engine conditions <i>S. Doyle, D.A. Rothamer</i>

	Reaction Kinetics Ballroom A Chair: M.G. Sandberg	Combustion Theory and Modeling Ballroom B Chair: R. Sivaramakrishnan	Novel Combustion Techniques Ballroom C Chair: D. Dasgupta	Internal Combustion Engines Senior Classroom Chair: K. Srinivasan
11:40 - 12:00	1A07: Autoignition characteristics of ammonia-dimethyl ether blends <i>T. Goyal, J. Klein, O. Samimi-Abianeh</i>	1B07: A localized kernel ridge regression approach for estimating chemical reaction rates <i>O. Ukorigho, O. Owoyele</i>	1C07: Multidimensional modeling of plasma assisted ignition using Gaussian process regression <i>I. Kabil, C. Xu, T. Lu</i>	1D07: 235ICEQ-0076 BTEX emissions from a gasoline direct injection engine operating on non-oxygenated gasoline and E10 <i>T.S. Patil, B.M. Wilmer, W.F. Northrop</i>
12:00 - 12:20	1A08: OUT-21 Toward predictive pressure-dependent kinetics for non-adiabatic reactions <i>C.R. Mulvihill, A.W. Jasper, Y. Georgievskii, S.J. Klippenstein</i>	1B08: Towards integration of a Pareto-efficient combustion modeling framework into high-order Nek5000 spectral element CFD solver <i>T. Kumar, P. Sharma, M. Ameen, P. Pal, C. Xu, M. Ihme</i>	1C08: Design and analysis of a constant-volume strand burner apparatus <i>T.G. Swindell, T.E. Sammet, F.A. Rodriguez, E.L. Petersen</i>	
12:30 - 1:30	LUNCH – Second-Floor Grand Ballroom CSSCI Business Meeting - Second-Floor Grand Ballroom			
1:30 - 2:30	Plenary Lecture in Second-Floor Grand Ballroom: Prof. Ajay Agrawal, The University of Alabama Title: <i>From Optical Spray Diagnostics to Peripheral Fuel Injection (PeFI): Advancing Diesel Combustion for High-Efficiency and Low-Emissions</i> Chair: R. Sankaran			
2:30 – 2:40	Transition to Afternoon Sessions			
	Reaction Kinetics Ballroom A Chair: O. Mathieu	Diagnostics Ballroom B Chair: P.T. Lynch	Fire Ballroom C Chair: T. Hafiz	Industrial & Applied Combustion Senior Classroom Chair: T. Robertson
2:40 - 3:00	1A09: Initiation and secondary reactions in the pyrolysis of tetramethylsilane <i>R. Sivaramakrishnan, A.W. Jasper, R.S. Tranter</i>	1B09: Simultaneous imaging of OH* and CH* chemiluminescence in the exhaust of a rotating detonation engine <i>A. James, A.K. Agrawal</i>	1C09: Effects of ambient pressures and oxygen on upward flame spread <i>R. Neupane, Y.-T. Liao</i>	1D09: Assessing slagging impact and optimizing coal blends in coal-fired boilers: A combined CFD evaluation and optimization method <i>A.D. Gutierrez, S. Saenz, J.J. Acuña</i>
3:00 - 3:20	1A10: A physics-constrained autoencoder-NeuralODE framework for learning complex hydrocarbon fuel chemistry: Methane combustion kinetics <i>T. Kumar, A. Kumar, P. Pal</i>	1B10: Temperature imaging in H₂ blended NH₃ flames using femtosecond NO LIF <i>M.K. Hay, M. Suarez, S. Pias, W.D. Kulatilaka</i>	1C10: Study of flaming firebrand using numerical modeling and background oriented Schlieren visualization <i>A.A. Naqvi, B.E. Schmidt, Y.-T.T. Liao</i>	1D10: In pursuit of multifunctional composites for energetic and pressure sensing applications <i>M. Örnek, C.T. V. Nunes, T.A. Hafner, S.F. Son</i>

	Reaction Kinetics Ballroom A Chair: O. Mathieu	Diagnostics Ballroom B Chair: P.T. Lynch	Fire Ballroom C Chair: T. Hafiz	Industrial & Applied Combustion Senior Classroom Chair: T. Robertson
3:20 - 3:40	1A11: Experimental and fuel-surrogates modeling study of the oxidation of specialty jet fuels <i>M. Abdulrahman, S. Hossain, M. Sheyyab, P.T. Lynch, K. Brezinsky</i>	1B11: Applicability of flame chemiluminescence in liquid-fueled flames: Sensing and modelling <i>J. Schihl, A. Gandomkar, P.M. Allison</i>	1C11: Spacecraft habitability results from the Saffire VI experiment <i>D.L. Urban, G.A. Ruff, P. Ferkul, J. Easton, M. Johnston, J. Owens, S. Olson, C. Fortenberry, J. Graf, O. George, B. Toth, F. Meyer, C. Eigenbrod, J.S. T'ien, Y.-T. T. Liao, C. Fernandez-Pello, G. Legros, A. Guibaud, N. Smirnov, O. Fujita, U. Rojas Alva, G. Jomaas</i>	1D11: Flame characteristics of ammonia-dimethyl ether blends at high gas temperature and pressure <i>T. Goyal, O. Samimi-Abianeh</i>
3:40 - 4:00	1A12: Measuring H abstraction rates in F + butene using absorption spectroscopy in a miniature shock tube <i>R.A. Shaik, R. Sivaramakrishnan, S. Hossain, K. Brezinsky, P.T. Lynch</i>	1B12: Simultaneous NO and H atom imaging in flames using femtosecond LIF <i>M.A. Suarez, M.K. Hay, W.D. Kulatilaka</i>	1C12: Effect of bed size on flammability of Indian tropical forest litter <i>H.B. Gaikwad, A. Kumar</i>	1D12: Flame speed of ammonia-hydrogen blends at high gas temperatures and pressures <i>J. Douvry-Rabjeau, T. Goyal, J. Klein, P. Zoldak, O. Samimi-Abianeh</i>
4:00 - 4:15	BREAK - Second-Floor Grand Ballroom Foyer			
		Detonations Ballroom B Chair: M. McClain	Fire Ballroom C Chair: J. Han	Droplets and Sprays Senior Classroom Chair: V. Nayagam
4:15 - 4:35		1B13: Cryogenic extension of NASA species polynomials using hydrogen and oxygen at stoichiometry <i>R.P. Thacker, Z. Harris, B. Maxwell</i>	1C13: Heat release rate and thermal runaway propagation in lithium-ion batteries using surrogate cells <i>K. Cartwright, P. Kannan, Y. Gu, C. Yuan, Y.-T. Liao</i>	1D13: Droplet combustion dynamics of liquid fuels enhanced with carbon dots <i>A.S.M. Sazzad Parveg, A. Ratner</i>
4:35 - 4:55		1B14: Supersonic deflagration of hydrogen-air mixture <i>J. Klein, T. Goyal, O. Samimi-Abianeh</i>	1C14: Experimental and numerical approaches to optimize heat blocking efficiency in intumescent coatings. <i>T. Hafiz, J. Covello, G. Wnek, Y.-T. Liao, A. Yousefi, A.K. Melaiye</i>	1D14: Exploring the potential of nanocellulose as an additive in liquid fuels to improve combustion performance <i>R. Mollick, A. Ratner</i>

		Detonations Ballroom B Chair: M. McClain	Fire Ballroom C Chair: J. Han	Droplets and Sprays Senior Classroom Chair: V. Nayagam
4:55 - 5:15		1B15: Comparison of upstream-normal and upstream-angled fuel injection schemes in a generic scramjet combustor <i>E.L. Braun, S.D. Hammack, T.M. Ombrello</i>	1C15: Near-surface thermometry of solid fuel polyoxymethylene counterflow diffusion flame using hybrid fs/ps CARS <i>S. Bidwai, G. Young, J.B. Michael</i>	1D15: Investigating the influence of fueling strategies and spark on combustion instability for a single cylinder two-stroke natural gas engine <i>F. Pommier, E. Stewart, T. Jacobs</i>
5:15 - 5:35		1B16: Model of traversing turbulent jet ignition in a wave rotor combustor <i>M. Jamshidnejad, S. Ghadiri, M.R. Nalim</i>	1C16: Dual-pump coherent anti-Stokes Raman scattering thermometry and major species concentration measurements of H₂/CH₄ counterflow diffusion flames <i>B.K. Murdock, K. Pempek, V. De La Trinidad, J.P. Gore, R.P. Lucht</i>	1D16: Experimental investigation of water addition effects on diesel/kerosene/butanol spray combustion instability <i>A. Kumar, S.M. Basha, S. Yang</i>
6:00 - 9:00	<p style="text-align: center;"> Banquet at the Cleveland Museum of Natural History 1 Wade Oval Dr, Cleveland, OH 44106 </p> <p style="text-align: center;"> Banquet Lecture: Prof. Harsha Chelliah, University of Virginia Title: <i>From Fire Research to High-Speed Propulsion Systems – Fundamental Combustion Research Supported by National Science Foundation</i> Chair: Y.-T. Liao </p>			

Tuesday, 14 May 2024

All Technical Sessions are held at the Tinkham Veale University Center

7:30 - 11:00 Registration: Second-Floor Grand Ballroom Foyer

7:00 - 8:00 Continental Breakfast: Second-Floor Grand Ballroom

8:00 - 8:05 Announcements in Second-Floor Grand Ballroom

Bryan Schmidt, Local Host

8:05 - 9:05 Plenary Lecture in Second-Floor Grand Ballroom: **Prof. Sayan Biswas**, The University of Minnesota

Title: *Plasma in Energy Research*

Chair: K. Srinivasan

9:05 - 9:15	Transition to Morning Sessions			
	Laminar Flames Ballroom A Chair: D.E. Thomas	Industrial and Applied Combustion Ballroom B Chair: K. Ajmani	Alternative Fuels and Emissions Ballroom C Chair: S. Roy	Particulates and Multiphase Flows Senior Classroom Chair: J. Kojima
9:15 - 9:35	2A01: Experimental measurements of ammonia flame thickness from spherically propagating flames <i>Y.M. Almarzoq, M. Hay, W.D. Kulatilaka, E.L. Petersen</i>	2B01: An engineering approach to explosion vent sizing <i>B. O'Bryan, C. Engebretson, C. Allen</i>	2C01: Impact of fuel properties on lean blow out for sustainable aviation fuels <i>D. Dasgupta, S. Som</i>	2D01: Particle-scale simulation for co-firing biomass with coal to study interactions between two particles with realistic morphology <i>D. Liang</i>
9:35 - 9:55	2A02: Near-limit quenching behavior of low stretch diffusion flames in microgravity <i>C. Li, J.S. T'ien, P.V. Ferkul, S.L. Olson, M.C. Johnston</i>	2B02: Influence of blowoff procedure on flowfield and combustion phenomena near lean blowout in a swirl-stabilized liquid spray combustor <i>N.C. Guntapalli, M. Gurunadhan, S. Menon</i>	2C02: Review of sustainable aviation fuels and their combustion properties <i>U.L. Costa, E.L. Petersen</i>	2D02: On the development of non-intrusive diagnostics for a slab burner experiment <i>E. Katz Ismael, K. Retfalvi, P.E. DesJardin</i>
9:55 - 10:15	2A03: Measurement of MTBE and ETBE laminar flame speeds in air <i>J.E. Jacobs, Y. Almarzoq, I. Parvez, E.L. Petersen</i>	2B03: Cantera reactor network modeling of a domestic wood stove and comparisons to measurement <i>L.G. Shankar, P.E. DesJardin</i>	2C03: A multifidelity machine learning approach for predicting NO_x emissions in a double-staged combustor <i>P. John, V. Viswamithra, M. Gurunadhan, S. Menon, O. Owoyele</i>	2D03: Flame propagation in stratified dust-air mixtures <i>C. Engebretson, C. Allen</i>
10:15 - 10:35	2A04: The ignition stage of dynamic flame behaviors in the mesoscale sudden-expansion <i>S.-Y. Hsu, J.-H. Huang, C.-H. Tsai</i>		2C04: A numerical study of NO_x and soot emissions in n-heptane/methyl decanoate counterflow diffusion flames <i>R. Suresh, C. Xu, S.K. Aggarwal</i>	2D04: Measurements of soot emissions in high-pressure non-premixed n-heptane flames <i>F.J. Guzman, J. Kojima, J. Klettlinger</i>

10:35 - 10:50	BREAK - Second-Floor Grand Ballroom Foyer		
	Laminar Flames Ballroom A Chair: T. Goyal	Turbulent Combustion Ballroom B Chair: P.M. Allison	Alternative Fuels and Emissions Ballroom C Chair: S. Menon
10:50 - 11:10	2A05: Development of high efficiency heat extraction system to be used with wood fired heating systems <i>A. Ghorashi, A.K. Agrawal, B. Khandelwal</i>	2B05: Turbulent spherical flames in a constant-volume fan-stirred vessel <i>N. Lindblade, M. Turner, Y. Almarzooq, E.L. Petersen</i>	2C05: CFD evaluation of radial airflow lean direct injectors for commercial supersonics technology <i>K. Ajmani</i>
11:10 - 11:30	2A06: Hexamethyldisiloxane (HMDSO) impact on spherical propagating methane flame speeds <i>Q. Meng, P. Dunphy, R. Ramesh, M. Gamba, M. Wooldridge</i>	2B06: Turbulent burning velocity of lean premixed hydrogen/air flames at engine-relevant conditions <i>Y. Wang, C. Xu, R. Scarcelli</i>	2C06: Comparison of high-speed images of lean blowout for four national jet fuel combustion program fuels <i>K.M. Tacina, T.G. Capil, Y.R. Hicks</i>
11:30 - 11:50	2A07: The effects of pressure and optical thickness on radiative losses in spherical diffusion flames in microgravity <i>K.A. Waddell, D.L. Dietrich, V. Nayagam</i>	2B07: Investigating combustion dynamics through an optical pre-chamber <i>A. Dhotre, S. Biswas</i>	2C07: Design, calibration and validation of a robust and reliable nanofuel stability analyzing device <i>W. Steiner, N. Nagarkar, R. Mollick, A. Ratner</i>
11:50 - 12:10	2A08: Ammonia-hydrogen flame extinction at low and intermediate temperatures <i>D.E. Thomas, J.C. Jarosz, W. Schutte</i>	2B08: Flame characterization of a NASA Glenn natural gas and oxygen burner rig facility <i>T.G. Capil, M.J. Presby, Y.R. Hicks</i>	2C08: Development of an experimental apparatus for the study of fuel deposits at high temperatures <i>A. Lira, R. Juárez, C. Loebick, E.L. Petersen</i>
12:10	Box Lunches – Second-Floor Grand Ballroom Foyer Adjourn		
1:00	Facility Tours NASA Glenn and Fives North American Combustion Inc. Tours for those who registered. Bus leaves CWRU at 1:00 11038-11112 Bellflower Rd		

2024 CSSCI SPRING TECHNICAL PAPER OVERVIEW AUTHORS

<i>Author</i>	<i>Paper #</i>	<i>Author</i>	<i>Paper #</i>	<i>Author</i>	<i>Paper #</i>	<i>Author</i>	<i>Paper #</i>
Abdulrahman, M.	1A06, 1A11	Diévar, P.	1A01, 1A05	Hardaya, A.P.	1B01	Kwon, B.	1C02, 1C04
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Acuña, J.J.	1D09	Doyle, S.	1D06	Hay, M.K.	1B01, 1A02, 1A03,	Li, C.	2A02
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Allison, P.M.	1B11	Ferkul, P.V.	1C11, 2A02	Huang, J.-H.	2A04	Lira, A.	2C08
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.....	2A03, 2B05	Feyijimi, C.	1D02	Intardonato, M.	1A02, 1A03	Loebick, C.	2C08
Ameen, M.	1B08	Fikri, M.	1A03	Jacobs, T.	1D04, 1D15	Lu, T.	1C07
Basha, S.M.	1D16	Fortenberry, C.	1C11	Jacobs, J.E.	2A03	Lucht, R.P.	1B05, 1C16
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Bhattacharjee, S.	1C03	Gaikwad, H.B.	1C12	Jamshidnejad, M.	1B16	1A06, 1A11, 1A12
Bidwai, S.	1C15	Gamba, M.	2A06	Jarosz, J.C.	2A08	M. Khan-Ghauri,.....	1A05
Biswas, S.	1D05, 2B07	Gandomkar, A.	1B11	Jasper, A.W.	1A08, 1A09	Madhi, S.	1C02, 1C04
Braun, E.L.	1B15	George, O.	1C11	Jeevarajan, J.	1C02, 1C04	Maruta, K.	1A05
Brezinsky, K.	1B03, 1B04,	Georgievskii, Y.	1A08	John, P.	2C03	Mathieu, O.	1A01, 1A02, 1A05
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Cartwright, K.	1C13	Gollner, M.	1C01	Kabil, I.	1C07	Meng, Q.	2A06
Catoire, L.	1A01, 1A05	Gore, J.P.	1B05, 1C16	Kanayama, K.	1A05	Menon, S.	2B02, 2C03
Chen, J.H.	1B01	Goyal, T.	1A07, 1D11,	Kannan, P.	1C02, 1C04, 1C13	Meyer, F.	1C11
Chethalan, J.P.	1B03	1D12, 1B14	Katz Ismael, E.	2D02	Michael, J.B.	1C15
Cooper, S.P.	1A02, 1A03	Graf, J.	1C11	Khandelwal, B.	2A05	Mollick, R.	1D14, 2C07
Costa, U.L.	2C02	Grégoire, C.M.	1A01, 1A05	Khan-Ghauri, M.	1A01	Moro, A.	1A04
Covello, J.	1C14	Gu, Y.	1C13	Klein, J.	1A07, 1D12, 1B14	Mulvihill, C.R.	1A08
Dasgupta, D.	2C01	Guibaud, A.	1C11	Klettlinger, J.	2D04	Murdock, B.K.	1B05, 1C16
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Author.....Paper #
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O'Bryan, B. 2B01
Olson, S.L. 1C11, 2A02
Ombrello, T.M. 1B15
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Panzer, F. 1C03
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Parhizi, M. 1C02, 1C04
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