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TYPES OF CONTRIBUTION

Types of contributions include:

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- **Brief communications** for describing an original contribution to the field, but with narrower scope than a regular research paper, or preliminary announcements of the results of current work, or short accounts of new techniques: typically 1000–1500 words in length with, at most, 4 figures and/or tables
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All equations wider than 3.5 inches should be wrapped to the next line as shown in Equation (2).

Shown below are examples of equations:

$$\frac{d\lambda}{dt} = \left[\frac{\sqrt{1+161\left(\frac{x}{x^+}\right)^2} - 12}{2(A/F)_{st}} - \frac{\sqrt{1+161\left(\frac{x_{prev}}{x^+}\right)^2} - 1}{2(A/F)_{st}} \right] (1 - BGF_{st}) \cdot \frac{12}{(t-t_{prev})} \quad (1)$$

$$\begin{aligned} \Delta K_{aero_f}(0) &= -\frac{1}{2} \frac{\partial K_f}{\partial W_f} L_{aero_f} + \dots \\ &+ \frac{1}{2l} \left(l_r \frac{\partial F_{aero_y}}{\partial \beta} + \frac{\partial M_{aero_z}}{\partial \beta} \right) \left(\frac{l_f}{l_r K_r} - \frac{l}{mV^2} \right) K_f \\ \Delta K_{aero_r}(0) &= -\frac{1}{2} \frac{\partial K_r}{\partial W_r} L_{aero_r} + \dots \\ &+ \frac{1}{2l} \left(l_f \frac{\partial F_{aero_y}}{\partial \beta} - \frac{\partial M_{aero_z}}{\partial \beta} \right) \left(\frac{1}{K_r} - \frac{l}{mV^2} \frac{l_r}{l_f} \right) K_r \end{aligned} \quad (2)$$

If it is necessary to break an equation, do so at an operational sign or major bracket and follow it by an ellipsis (three dots). On the second line of the equation, begin by repeating the same operator that you broke the equation after and then align the first and second lines by aligning the first character of the second line. Enter equations on separate lines and apply the [Equation] style in Word, which will center the equations. Number equations consecutively with the number enclosed in parentheses and following the equation on the same line (right justifying the numbers is not required). Equation numbering continues across the main body sections without restarting, except in appendices. Note that simple equations may be incorporated into the text without numbering. References to the equations can be abbreviated as follows (except at the beginning of a sentence): Eq. (7). If possible, the typeface and type style of symbols placed in the text should match those of the equations (achieved by applying, e.g., [Symbol] or [Emphasis-Italic] styles).

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Number figures consecutively in a single sequence. All figures must be referred to in order in the text. Where possible, results should be discussed in the text and not in the caption, although extended captions may be used to describe micrographs or complex figures.

Figure captions should be a brief title (not on the figure itself) and a description.

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Ensure that curves on multiple plots are clear size, in particular, that any symbols used on graphs can be distinguished. Labelling of individual curves may be preferable to keys in these circumstances.

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Tables have a title, rather than a caption, positioned above the table and should be placed within the text close to the first mention. Tables should not be supplied as image files. The title is prefaced by a table number (e.g., Table 1) and is followed by a caption.

Table 1. This is an example of a table and title.

Column Heading	Column Heading
Displaced volume	1966 cc
Stroke	154 mm
Bore	127.5 mm
Connecting rod	255 mm
Compression ratio	14.3:1
Number of valves	4
Exhaust valve open	34° BBDC @ 0.15 mm lift
Exhaust valve closed	6° BTDC @ 0.15 mm lift
Inlet valve open	2° BTDC @ 0.15 mm lift

Where headings refer to more than one column or row, indicate this by merging the cell in question.

Table 2. Experimental sintering conditions.

Specimen	Sintering temperature/°C		Time at temperature/min	Cooling rate/ K s ⁻¹
	Min.	Max.		
1	980	995	30	12
2	1050	1080	...	15

Use an ellipsis (...) rather than a dash (–) for absent items. The number of significant figures/decimal places to which values are reported should be consistent and reflect the accuracy of the measurement. Include standard errors where relevant.

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- after the prefixes post-, non-, self-, cross-, and quasi- and before the suffixes -off and -up
- to avoid double vowels or consonants in compound words (e.g., electro-optics, cross-section) or ambiguity (e.g., re-cover/recover, re- solution/resolution)
- in combinations or ranges (as en dashes): Fe–4Ni–2Cu, stress–strain curve, 1–10

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Use double quotation marks in the first instance and single quotation marks for quotes within quotes. Periods and commas should be placed inside quotation marks, and semi-colons and colons are placed outside quotation marks. Direct quotations from other sources must retain the original text, spelling, and punctuation.

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Reference formatting samples	
Reference type	Sample
SAE Technical Paper	Otsuki, S., Oie, T., and Ishida, K., "Hydrocarbons Speciation of Automotive Emissions Using High Speed Gas Chromatography," SAE Technical Paper 950513, 1995, doi:10.4271/950513.
Conference paper with no paper number or DOI	Saha, P., Pan, J., and Veen, J., "Thoughts Behind Developing a Small Reverberation Room-Based Sound Absorption Test Method for the Automotive Industry," Paper presented at NOISE-CON 2008, Dearborn, MI, July 28-31, 2008.
Journal article with DOI	Miles, P., Collin, R., Hildingsson, L., Hultqvist, A. et al., "Combined Measurements of Flow Structure, Partially Oxidized Fuel, and Soot in a High-Speed, Direct-Injection Diesel Engine," <i>Proceedings of the Combustion Institute</i> 31, no. 2 (2007): 2963-2970, doi:10.1016/j.proci.2006.07.231.
Presentation	Alger, T., "SwRI's HEDGE™ Concept – High-Efficiency Dilute Gasoline Engines for Automotive, Medium Duty, and Off-Road Applications," Panel Presentation at SAE International 2009 Powertrains, Fuels, and Lubricants Meeting, November 2009.
Magazine articles	Veen, J., Pan, J., and Saha, P., "Standardized Test Procedures for Small Reverberation Room," <i>Sound and Vibration</i> , December 2005, 18-20.
Standards	SAE International Surface Vehicle Recommended Practice, "Laboratory Measurement of the Composite Vibration Damping Properties of Material on a Supporting Steel Bar," SAE Standard J1637, Revised August 2007.
Book	Richards, P., <i>Automotive Fuels Reference Book</i> , 3rd ed. (Warrendale: SAE International, 2014), 69-73, doi:10.4271/R-297. NOTE: If no DOI is available insert ISBN in its place.
Personal communication	Smith, R., General Motors Corporation, personal communication, February 2007.
Patent	Wilkinson, J., Nonlinear resonant circuit devices. US Patent 3,624,124, July 16, 1990.
Internet reference	SAE International, "UNS on the Web; Metals and Alloys in the Unified Numbering System," SAE International, accessed August 2009, http://www.sae.org/uns .
Thesis/Dissertation	Mathuria, P., "Transfer Path Analysis of Diesel Engine Noise Using Statistical Energy Analysis," PhD thesis, Indian Institute of Technology, 2000.
Software	The Interactive Tester (Version 4.0), computer software, Psytek Services, Westminster, CA, 1993.
CD-ROM	Acoustics Testing Laboratory of the NASA Glenn Research Center. (<i>Distributor</i>), <i>Auditory Demonstrations II: Challenges in Speech Communication and Music Listening</i> , CD-ROM available from NASA Glenn Research Center Acoustical Testing Laboratory 04 from http://acousticaltest.grc.nasa.gov , December 2003.
Video	SAE International, <i>How Does SAE World Congress Enable Industry Networking and Relationship-Building?</i> SAE Video 10943, accessed November 11, 2011.

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