Announcement for the 15th Workshop on the Physics of Dusty Plasmas

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***Abstract* —** Announcing a Special Issue of the *IEEE Transactions on Plasma Science* on the Physics of Dusty Plasmas. This Special Issue is scheduled for publication in April, 2019.

*Index Terms*— dusty plasmas, complex plasmas

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he IEEE Transactions on Plasma Science will offer a special issue titled the “Physics of Dusty Plasmas” to be published in April 2019 covering the most recent developments in the field of dusty and complex plasmas. This issue will include papers presented at the 15th Workshop on the Physics of Dusty Plasmas, which will be hosted by University of Maryland, Baltimore County and Los Alamos National Laboratory and will be held 29 May-1 June 2018, in Baltimore, MD, USA. The workshop website is: <https://wpdp.umbc.edu/>. Topics will include laboratory, space, industrial, applied, theoretical and computational studies of dusty and complex plasmas and related phenomena. A wide range of topics are suitable for this issue including: astrophysical and solar system dust, microgravity study of complex plasmas, lunar dust levitation and transport, dust in the ionosphere, dust in industrial plasmas, dust charging processes, plasma crystals, strong coupling and phase transitions, dusty plasma waves and instabilities, magnetic field effects, particle growth and coagulation, electrical discharges in dust storms and volcanic plumes, dusty plasma diagnostic tools, and dust in fusion devices. This continues the tradition of publication of such special issues with past issues published in April of 1994, 2001, 2004, 2007, 2010, 2013, 2016.

The deadline for submission is 30 September 2018.

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