

# Nanoscale Organisation and Dynamics Group

University of Western Sydney



## Analysis of the Smoluchowski-Debye Equation with Coulomb Potential

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Professor Sergey Traytak will present a lecture entitled “Analysis of the Smoluchowski-Debye Equation with Coulomb Potential”.

The lecture will cover the following topics:

- (1) to show how symmetry properties may be effectively used to investigate the boundary value problems of the diffusion equation with a drift term;
- (2) to demonstrate the utility of the comparison theorem on the Smoluchowski-Debye Equation with Coulomb Potential;
- (3) to exhibit the use of the fractional derivatives method.

Prof. Sergey Traytak is a physicist by training and has long had interests in diffusion-influenced processes with different applications to physics, chemistry and biology. He is Professor of Chemical Physics at the Exact sciences and Innovative Technologies Department and Rector's Adviser in Research at the Sholokhov Moscow State University for the Humanities.

Staff and students at all levels are welcome to attend.

### **Venue and Time:**

This talk will be held on Tuesday July 19 at 10:30 at the Campbelltown Campus in Building 21, Lecture room 35 (C 21.G.26).

### **Enquiries:**

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