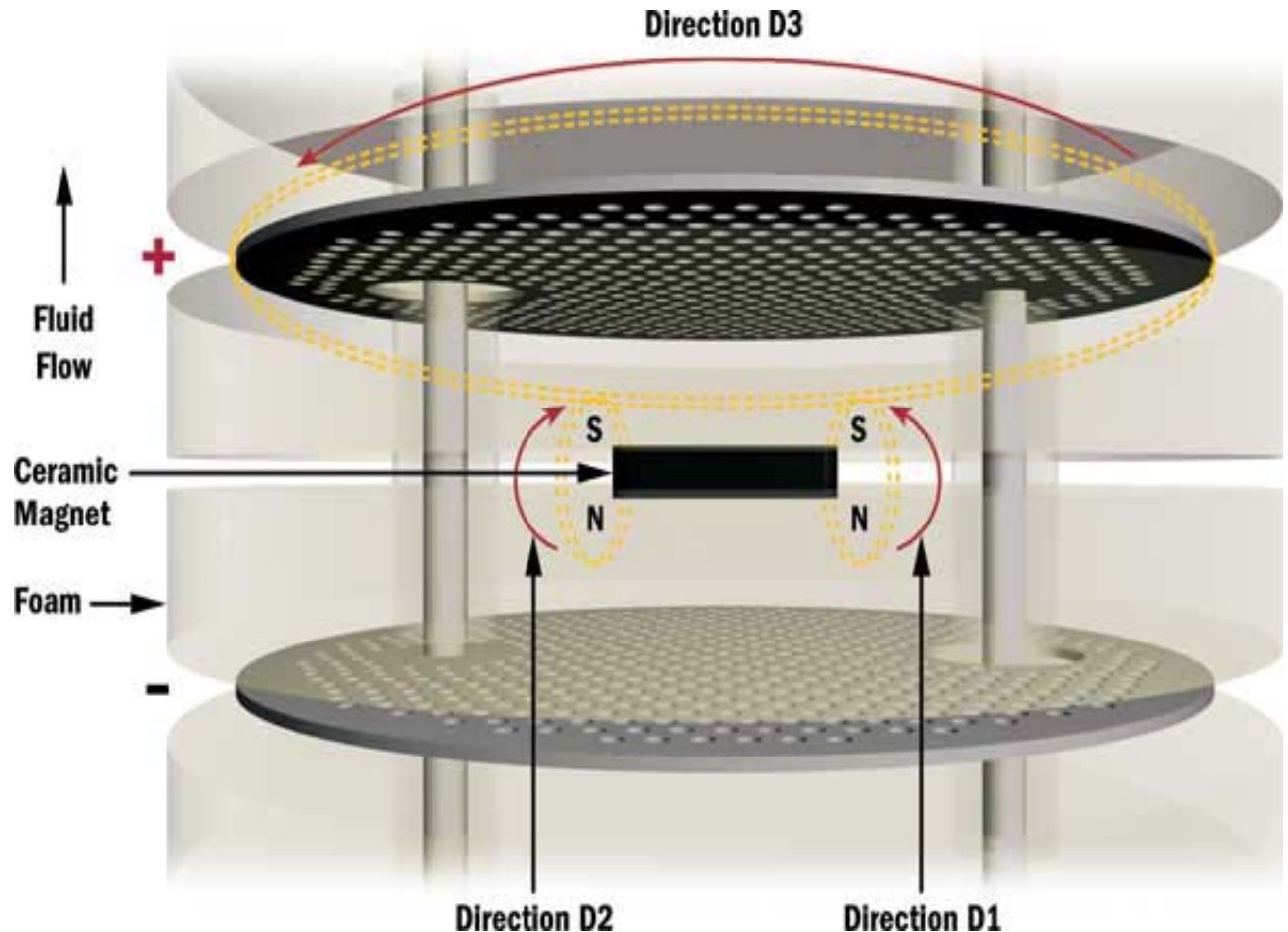


# ASL Electrostatics

**ASL Electrostatic Fluid Purification Systems have the unique ability to remove particulate of ANY size, right down to sub-micron sized particulate. The system will operate with any semi-conductive, or non-conductive fluid, lubricant, or oil, within broad temperature and viscosity limits. The system's ability to remove the precursors of oxidation by-products, prevents, and over time, removes existing tar and Varnish deposits. The Electrostatic Cell's unique back flush capabilities, extend it's life span to 8700 hours (one year of 24/7 operation) Inexpensive to procure, inexpensive to operate.**

# ASL Electrostatics

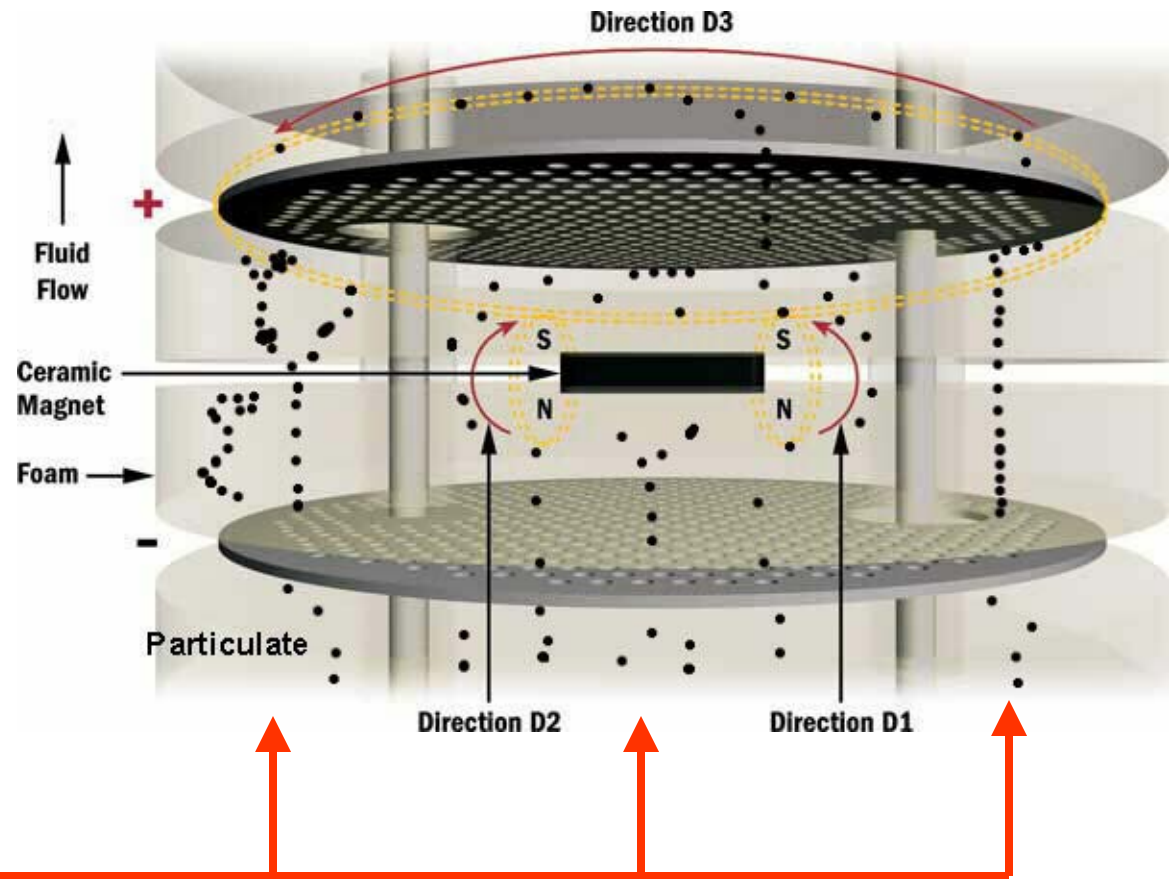
The  
Toroid -  
Corona  
influence  
zone.



Direction D1, D2  
Toroidal flow

Direction D3  
Corona flow

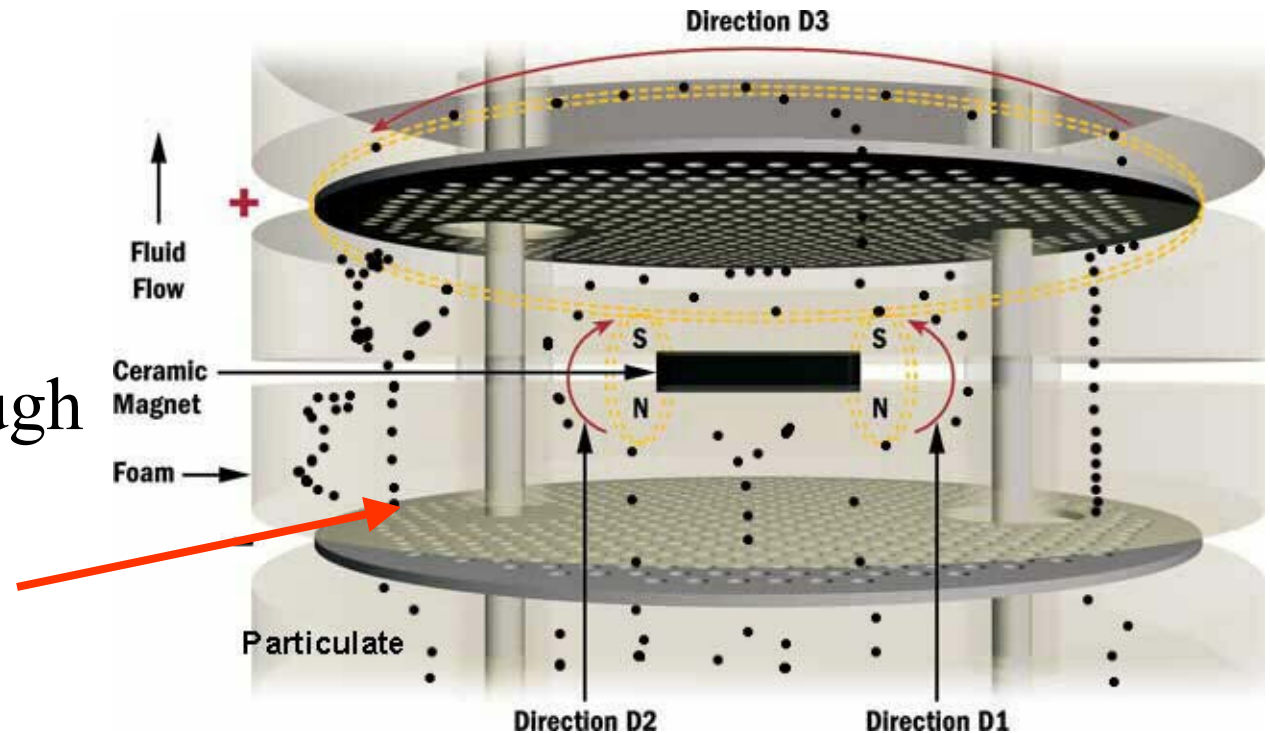
# ASL Electrostatics



Particulate is propelled upward by the force of the pump.

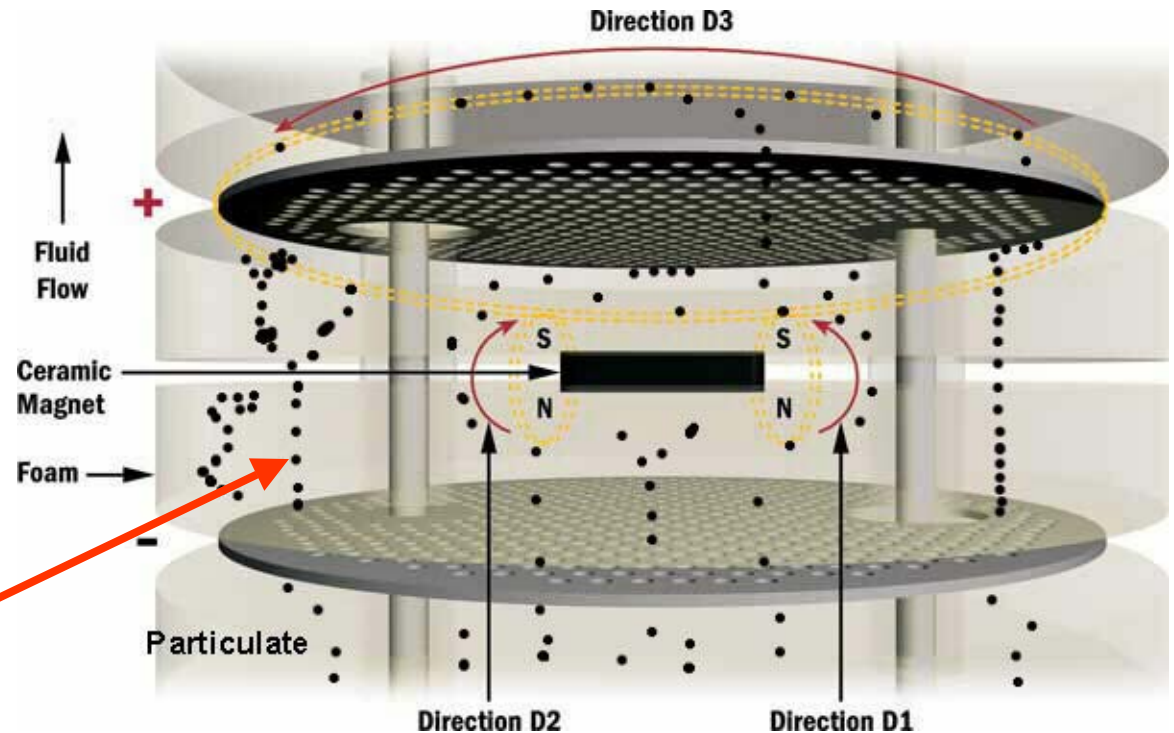
# ASL Electrostatics

Passing through  
the plate,  
Particulate  
assumes a  
Negative charge



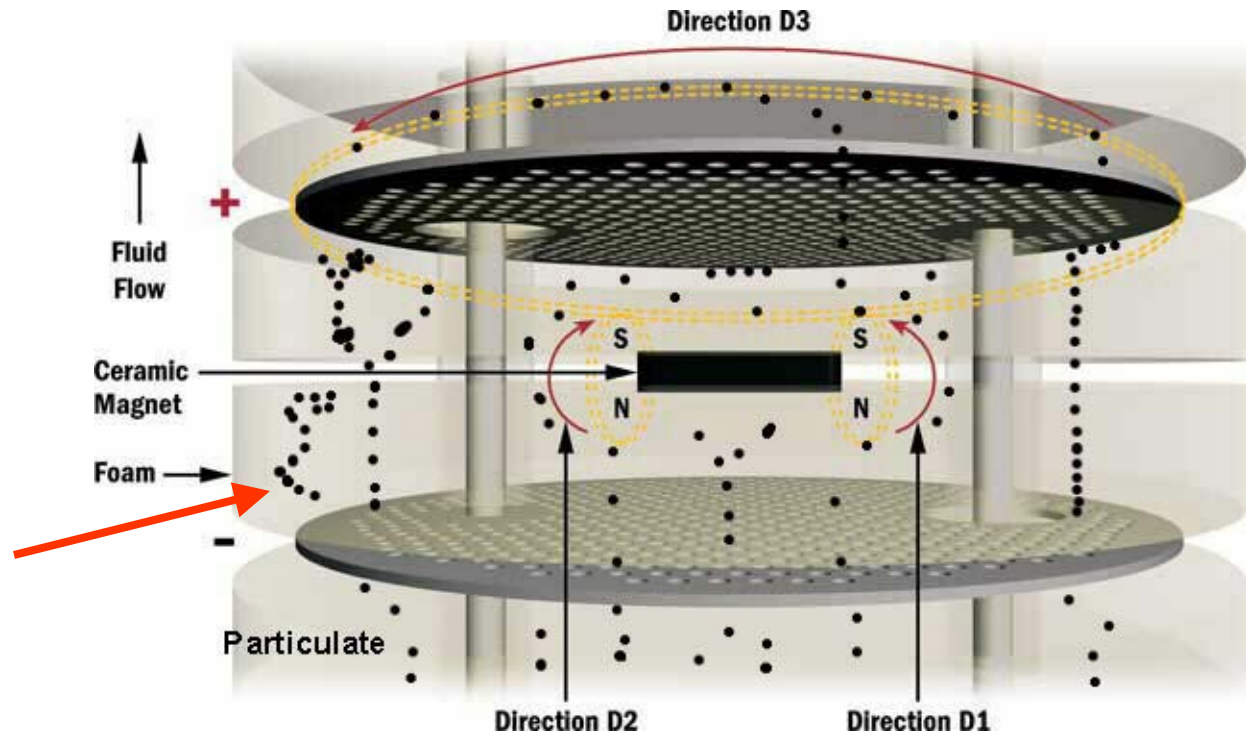
# ASL Electrostatics

Coulombs  
force propels  
particulate  
upward, away  
from the plate



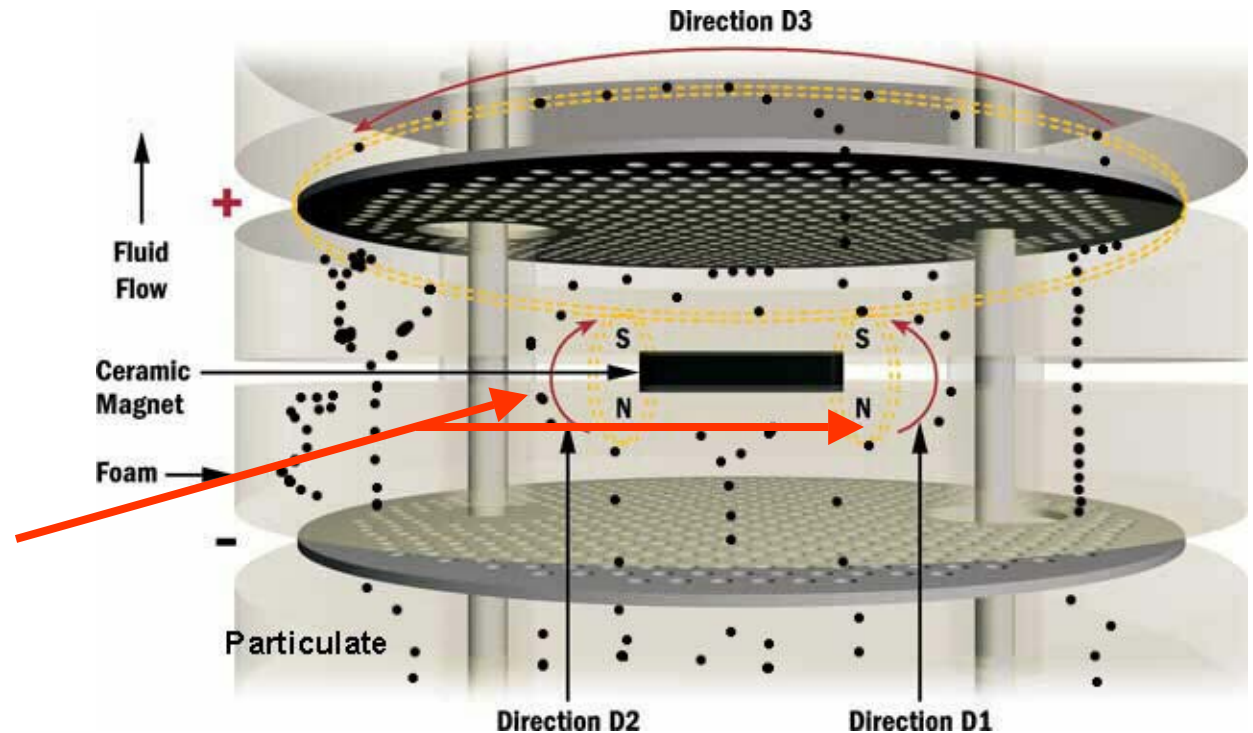
# ASL Electrostatics

Some particulate “straws” itself into the foam, seeking an upward path



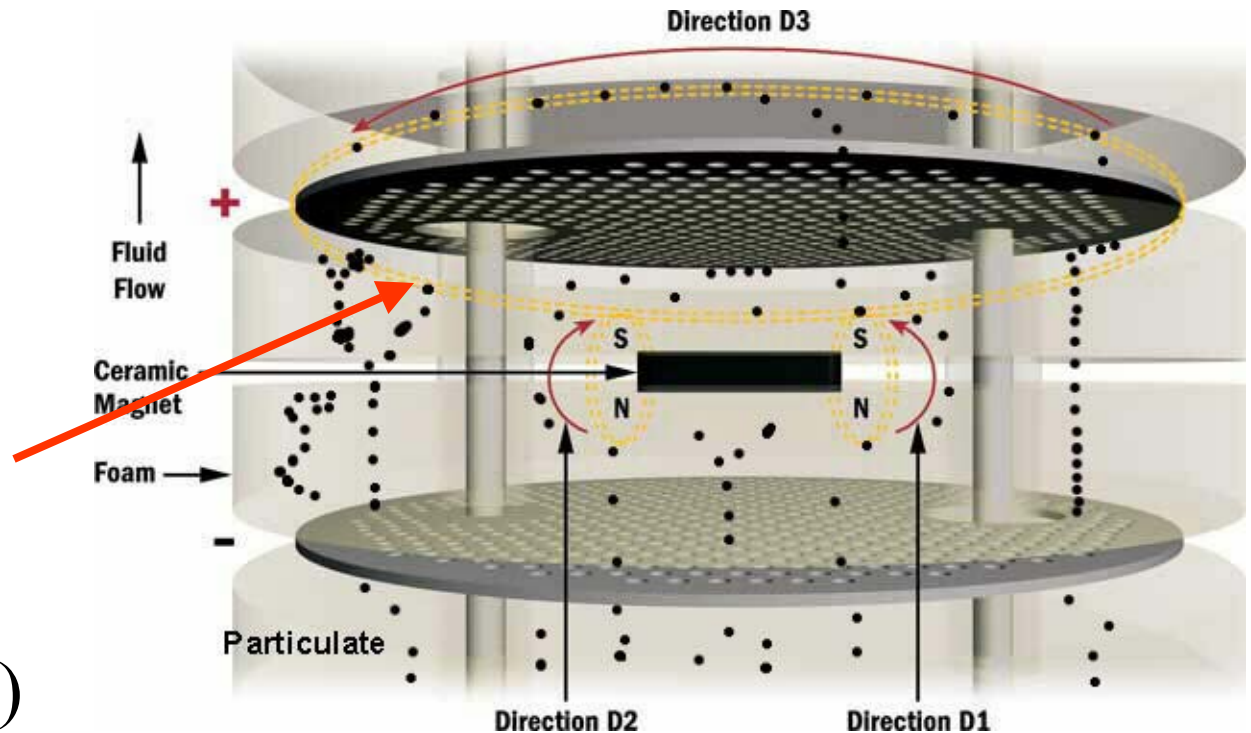
# ASL Electrostatics

Some particulate comes under the influence of the Toroidal flux field around the magnets



# ASL Electrostatics

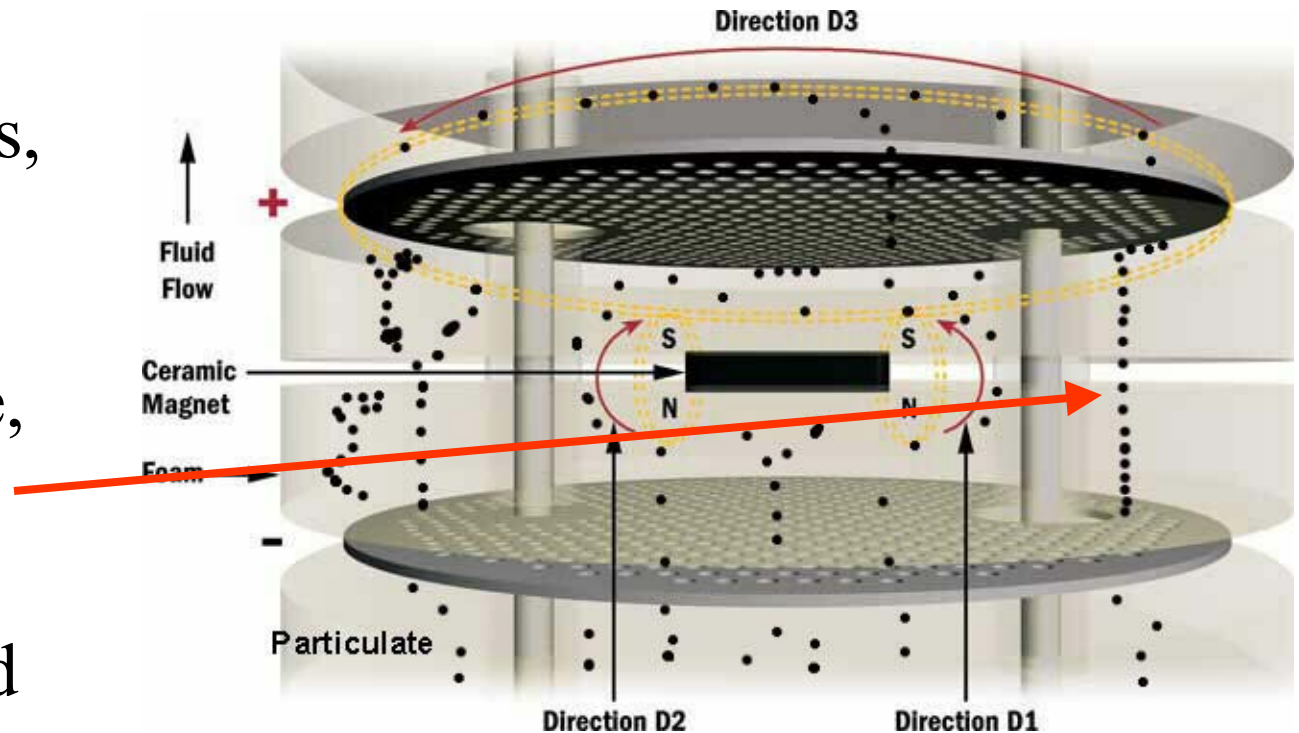
Other particulate comes under the influence of the Corona around the next (Positive) plate.





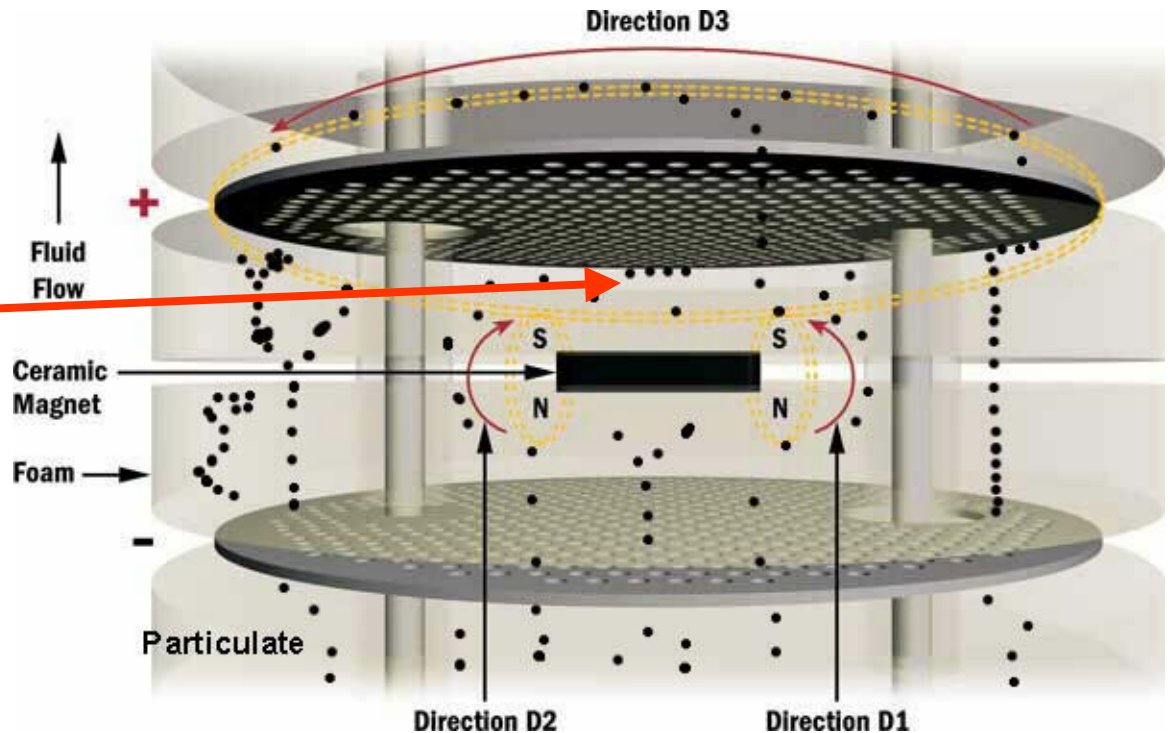
# ASL Electrostatics

At the edges,  
other  
particulate  
forms a line,  
with half  
drawn  
upward, and  
half drawn  
downward



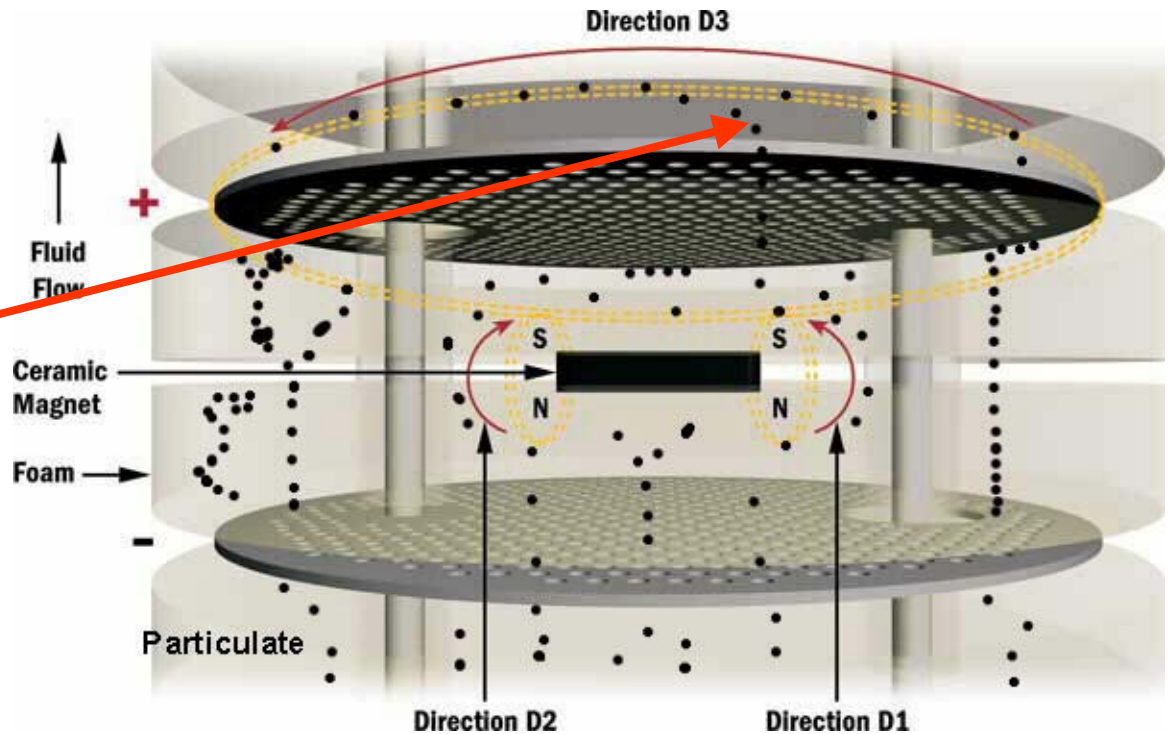
# ASL Electrostatics

Other particles stick to the positive plate and are held



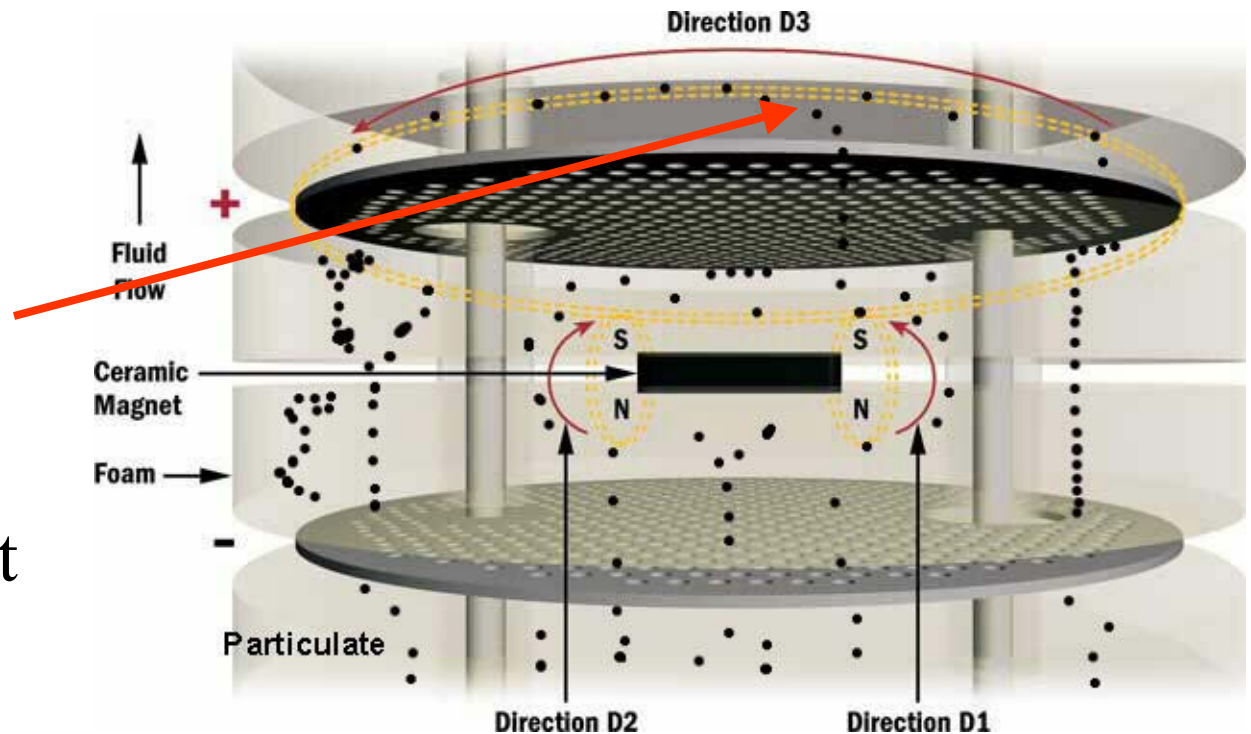
# ASL Electrostatics

Some particles pass through the positive plate, reversing polarity



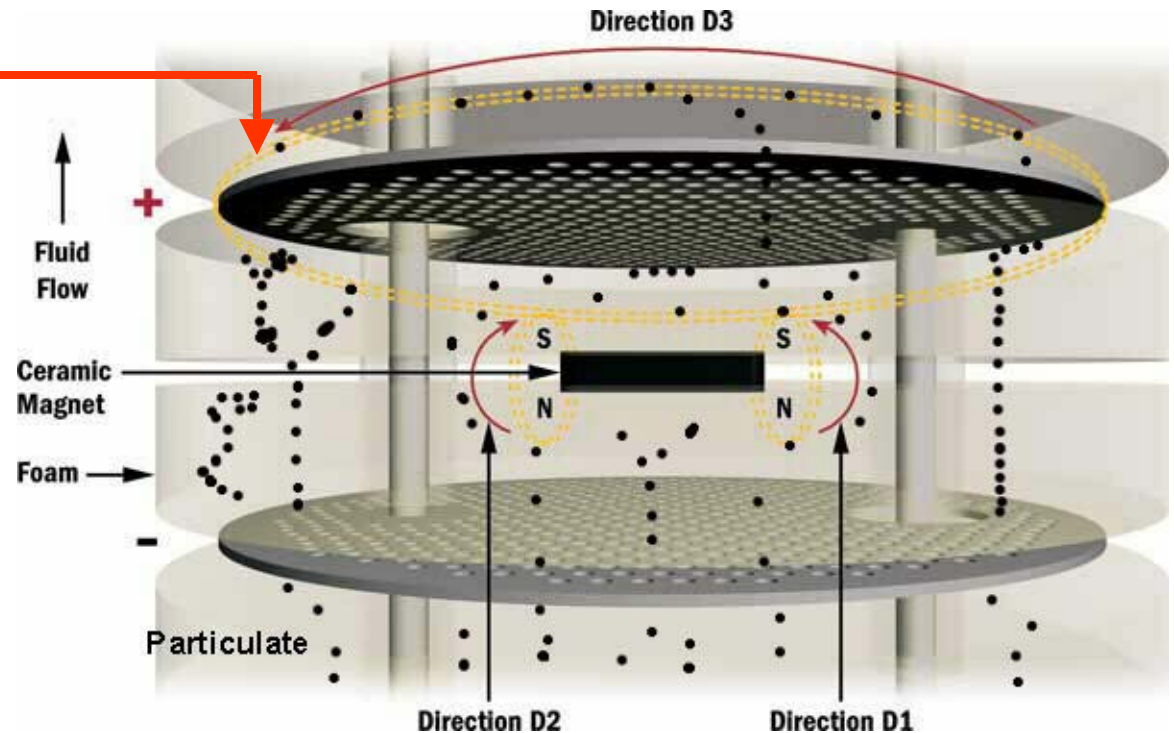
# ASL Electrostatics

Repelled again by Coulombs force, particles move upward toward the next transition, or



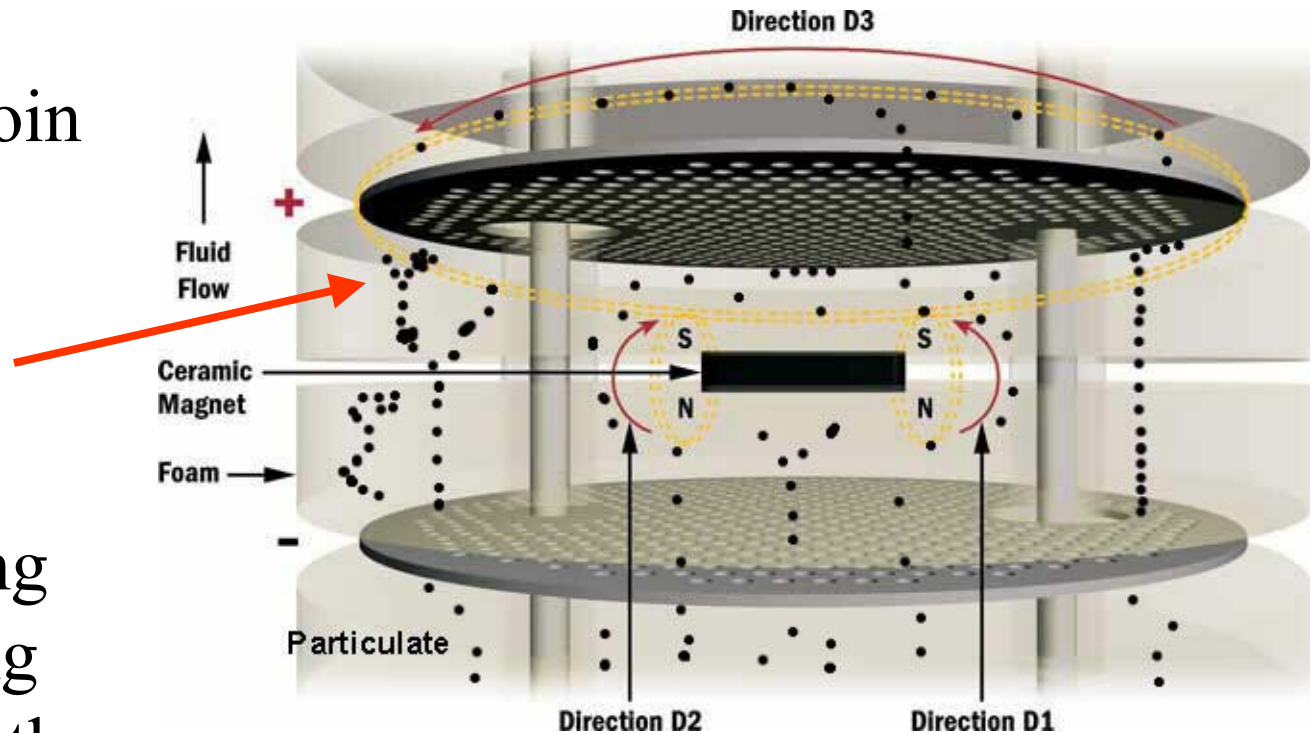
# ASL Electrostatics

are influenced by the Corona, and are carried back down through the plate,



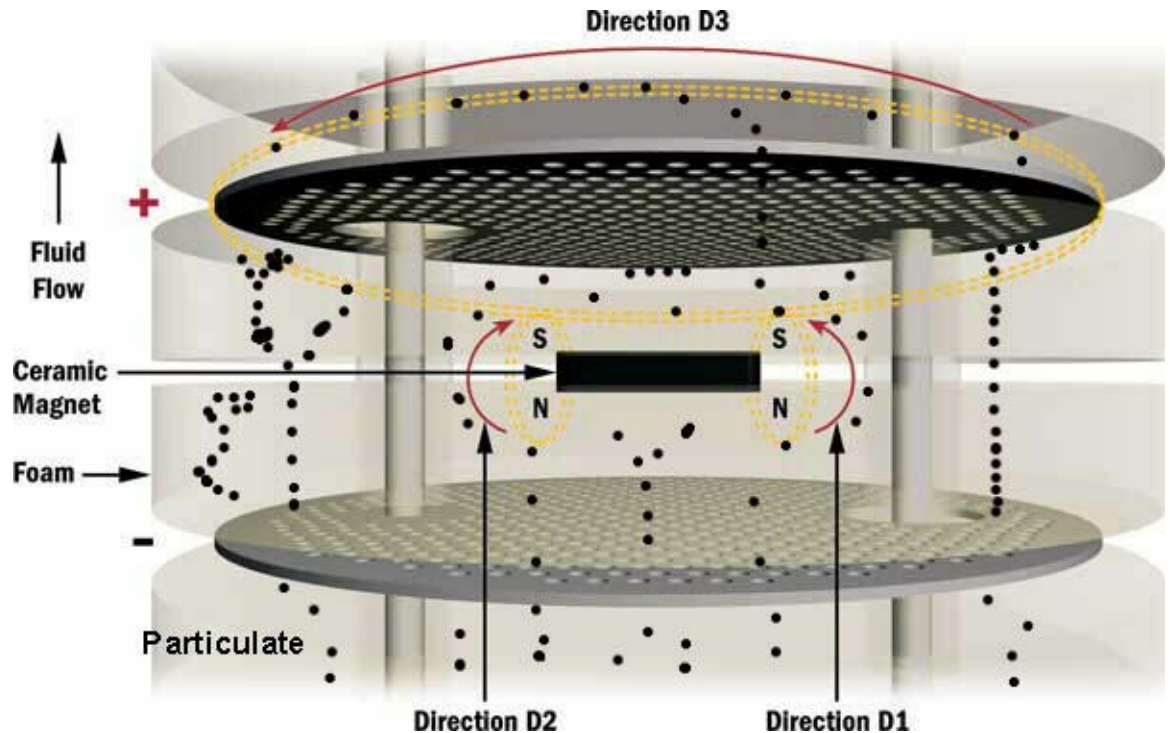
# ASL Electrostatics

where they join  
with rising  
negatively  
charged  
particulate,  
agglomerating  
and becoming  
entrapped in the  
course foam



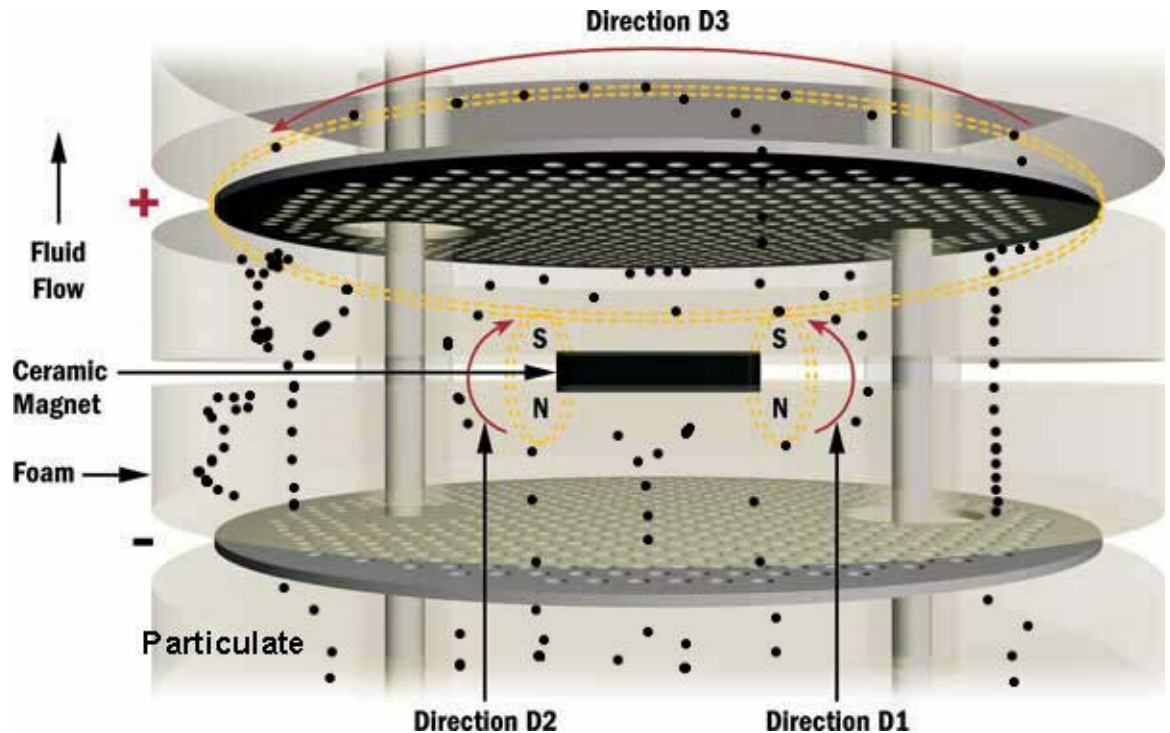
# ASL Electrostatics

Particulate that is not trapped in the foam, or held in the force fields, continues upward, encountering three more like transitions



# ASL Electrostatics

Uniquely, when the High Voltage is removed from the Cell, particulate falls toward the bottom, where it can be Back-flushed out with shop air!



Back-flush gives the Cell an 8700 hour (1 year) life!



# ASL Electrostatics

Replacement costs are less than 4 cents per operating hour!

