

# 25<sup>th</sup> Nano Congress for Future Advancements

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# Nanopharmaceutics and Advanced Drug Delivery

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## Kent Peterson

*Fluid Imaging Technologies Inc., USA*

### The use of flow imaging microscopy for nanoparticle analysis in biopharmaceuticals

Flow imaging microscopy has proven to be an important tool for the analysis of subvisible particulates in parenteral drugs. Now, due to the combined resolving power of blue LED light and patented oil immersion technology, flow imaging microscopes can image and analyze particles as small as 300 nm. The ability to detect transparent particles and differentiate them based on morphology yields significantly more detailed and accurate information than can be acquired using common laser diffraction and light obscuration techniques. Along with sophisticated statistical pattern recognition algorithms, these systems can be used to distinguish between different particulate types such as silicon oil, protein aggregates, and air bubbles. This presentation will present the techniques used to accomplish this.

### Biography

Kent Peterson is a graduate with an honors from Boston University's Graduate School of Management, and a Member of American Mensa Society. He has lead Fluid Imaging Technologies since joining as the founder of the firm 12 years ago. The Company has sold over 600 FlowCams in over 52 countries. Ship-based FlowCam systems have also been at work sampling from every ocean in the world. He has served on a number of boards and is active in community affairs. He has also been named MaineBiz Business Leader of the Year. His achievements include: Fluid Imaging Technologies' Awards and recognitions include, the Governor's Award for Business Excellence, the SBA New England Exporter of the Year Award, and the Portland Regional Chamber's Robert R Masterton Award.

[kent.peterson@fluidimaging.com](mailto:kent.peterson@fluidimaging.com)**Notes:**