

Easy Analytical Methods for the Environmental Analysis

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Editorial Note

As of late went to PITTCON, the biggest research center science gathering and work on the planet, held in Chicago. For somebody with a foundation in instrumental scientific science the lines of sparkling, innovative logical instruments were inebriating. I was a kid in a sweets store. In any case, I was additionally reminded that PITTCON was the setting of an urgent involvement with my expert profession. Precisely five years earlier I was in a similar meeting community tuning in to a feature discourse given by Dr. George Whitesides. Hroughout the address, the recognized Harvard educator presented the ethics of minimal effort insightful techniques with a specific accentuation on giving clinical diagnostics to the creating scene.

Truth be told he expressed that in his assessment it is the obligation of the created world to do as such. It might not have been a message that numerous in the crowd needed to hear yet I concur wholeheartedly. Teacher Whitesides was alluding basically to medical care applications yet the way of thinking similarly applies to natural examination. Without a doubt the climate and human wellbeing are inseparably connected. Individuals reserve a privilege to know whether water is acceptable to drink, food fit to eat and air protected to take to secure the strength of themselves, their loved ones. An objective that can't be accomplished on an enormous scale through improvement of progressively perplexing and costly research facility instruments. Two of the most encouraging ways to deal with the improvement of ease scientific techniques as I would like to think are microfluidic paper-based scientific gadgets (μ PADs) and nanoparticle based colorimetric strategies.

Both offer opportunities for inexpensively basic insightful tests. μ PADs are basic gadgets imprinted on modest paper substrates which utilize hairlike activity to stay away from the requirement for outer siphons and can be effectively and securely discarded by copying. Functionalized nanoparticles have been a territory of generous exploration efforts as of late. Gold and silver nanoparticles interface with noticeable light. Collection of these particles causes a detectable shading change. Functionalized nanoparticles can be intended to be particular and delicate. While my exploration profession started by looking for upgrades in techniques for inorganic investigation utilizing some significant expense hardware counting ICPMS and research facility microwave frameworks, I have consistently had an interest in creating less expensive and greener strategies for natural

examination.

For instance, we have as of late started to examine ease obvious spectrometers. For under \$10 a spectrometer can be developed utilizing a PC web cam or cell telephone camera as the finder. Such straightforward gadgets may be utilized to measure ecological examples. On my visits toward the West African nation of Ghana, cellphone utilization was universal which exhibited to me a gigantic potential for PDA based techniques. His actuality that hasn't got away from Professor Whitesides. Ecological observing is fundamental however normally costly and by and large difficult to support. His was exhibited to me Dier Tropical storm Sandy made landfall in the New York City zone.

Following the tempest priceless little financing was made accessible to examine potential substance pollution in overwhelmed locales. Our methodology, recommended by Dr. Spodek-Keimowitz at Vassar College, was to ask the general population to mail soil tests to us for examination. We figured out assets from our separate foundations and went to swarm subsidizing to make up the deficit. It may not be the ideal observing methodology however it permitted us to be one of only a handful few (if not just) gatherings to play out a significant review of soils promptly Dier the rising waters had retreated. At the point when the estimations were finished another difficult\ emerged. How were we to decipher the outcomes given the restricted information accessible from the New York metropolitan territory before the tempest? He British Geological Survey as of late revealed the finishing of a long term venture to plan basic fixations over the whole British Isles. How helpful comparable information would have been to us on the off chance that it had been accessible for the New York City region. Maybe resident science projects utilizing minimal effort scientific techniques are the response to give substance planning of enormous zones. Another field near my heart is synthetic training. He benefits of minimal effort instrumentation in the secondary school or school settings are clear. Standards of chromatography, spectroscopy and electrochemistry can be educated to all monetary capacities with a little resourcefulness on our part.

Examination encounters dependent on ecological examination could be made available to understudies, everything being equal and foundations and are maybe the most instructively effective and remunerating encounters that we can offer. Obviously upgrades in conventional research facility techniques will keep on being significant however it is my expectation that a portion of the papers in this diary will feature minimal effort strategies for natural investigation with applications to guaranteeing solid day to day environments for all, expanding the checking of our current circumstance and improving the instructive encounters of our understudies.

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