



Wenta Business Centre, 1 Electric Avenue,
Enfield, EN3 7XU, UK

Contact: Dr. Victor Higgs PhD
Phone: +44 (0)207 989 0117

Web: www.applied-nanodetectors.com
Twitter: [@AppliedNanoD](https://twitter.com/AppliedNanoD)

One-minute test hope for asthma patients

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A breath test for asthma, which could one day provide rapid diagnosis, monitoring and personalized treatment recommendations in less than a minute, will be demonstrated next week.

The technology, now under development by Applied Nanodetectors Ltd, will be featured at the IDTechEx Show, Conference and Exhibition in Berlin on 11-12th April 2018.

The handheld device is non-invasive and would be easy to use at the point of care. Inside the device, the company's low-cost, printed electronics sensor array platform would monitor several exhaled gases simultaneously, in real time.

The test detects small quantities of volatile organic compounds (VOCs) in human breath. These VOCs form a distinctive pattern or fingerprint, which can be used for early diagnosis and to monitor how well a person's asthma medication is controlling inflammation in the airways.

In addition, the system would include disease management software to make treatment recommendations based on the findings.

Dr Victor Higgs PhD, Managing Director of Applied Nanodetectors, said: "Some 235 million people worldwide have asthma and unfortunately, many are not getting optimal care and support. There is a critical need to move from a reactive approach to better prevention. We want our technology to empower healthcare professionals and their patients, offering personalized care that meets the needs of the individual while also reducing costs like avoidable hospital admissions."

Notes to editors

For more information and to request a media interview, please contact Dr. Victor Higgs.

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Email: info@applied-nanodetectors.com



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Dr Higgs is an expert on sensor technology, and managing director of Applied Nanodetectors. He has been leading and directing innovative businesses in a worldwide market, for more than 30 years. His talk at the IDTechEx Conference, *Breathalyser For Daily Asthma Testing*, is scheduled for 11:40 - 12:00 on 12 April 2018 at the Estrel Convention Center, Berlin, Estrel Hall A. Meet Applied Nanodetectors at Booth GO4, IDTechEx Show Europe 2018. For more information, visit <https://www.idtechex.com/europe2018/show/en/>.

References:

1. World Health Organization. April 2017. Asthma fact sheet. Last accessed: <http://www.who.int/mediacentre/factsheets/fs307/en/> 2 April 2018.
2. Braido F, Brusselle G, Guastalla D et al on behalf of the LIAISON Study Group. Determinants and impact of suboptimal asthma control in Europe: The INTERNATIONAL CROSS-SECTIONAL AND LONG/TUDINAL ASSESSMENT ON ASTHMA CONTROL (LIAISON) study. *Respiratory Research* 2016;17(1):51. Available at: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4894377/>

About Applied Nanodetectors

We are a leading developer and supplier of nanosensor-based solutions for environmental, healthcare and medical worldwide markets. Applied Nanodetectors Ltd was established in 2004 and is registered in England (company number 5220538). Please visit our website at www.applied-nanodetectors.com and follow us on Twitter [@AppliedNanoD](https://twitter.com/AppliedNanoD)