Pneumonia Innovations Team

world pneumonia day
Fight Pneumonia. Save a Child. November 12th.

WE SUPPORT EVERY WOMAN EVERY CHILD

## *PUSHING THE PACE…THE PNEUMONIA INNOVATIONS SUMMIT*

**Thursday, November 12th, 2015 I 10:00am - 5:30pm**

**Hearst Tower I 44th Floor I 57th St and 8th Avenue I New York City**

**PITCHING THE PACE: MEET THE INNOVATORS**
**2:15-4:30PM**

(in alphabetical order)

**Udantha Abeyratne**
ResApp Health
AUSTRALIA
***PneumoFone***
An app that instantly turns a smart phone into a tool for pneumonia diagnosis based on the analysis of cough sounds without a need for extra sensors or an external communication network. Results are displayed within a few minutes of cough measurement, alongside other observations such as breathing rate and temperature if desired.

**Mohammod Jobayer Chisti**
International Center for Diarrheal Disease Research (icddr,b)
BANGLADESH
***Bubble-Continuous Positive Airway Pressure (BCPAP)***
A robust, easy to use device that delivers oxygen to sick children at a fraction of the cost of mechanical ventilators through an oxygen cannula, intravenous tubing and a shampoo bottle - with gas flow provided by oxygen concentrators. A recent randomized trial in Bangladesh found that the BCPAP improved outcomes in children with very severe pneumonia and hypoxemia compared with standard low-flow oxygen therapy.

**Micaela Collins**
University of Toronto
CANADA
***Low-Cost Breast Milk Pasteurizer***
A device that pasteurizes expressed breast milk so that it can be safely stored at room temperature for an extended period when refrigeration facilities are unavailable. Coupled with infant and young child feeding counseling developed by icddr,b, and breast pumping stations, the pasteurizer supports post-partum garment factory workers in Dhaka to continue breastfeeding/ breast milk feeding, most crucially during the first six months after giving birth. hers can take it home to their infants.

**Faye Evans**
Lifebox®
UK
***Lifebox***
A pulse oximeter with rechargeable batteries so that patients stay monitored during frequent power cuts; robust enough to survive falls from the operating room table; intuitive and low-maintenance for an environment with limited biomedical engineering: and with an education program that ensures effective, long-term use.

**Barry Finette**
ThinkMD, Inc
USA
***MEDSINC***
*MEDSINC* is a simple to use, mobile clinical assessment, triage and treatment platform designed for minimally skilled users that allows users to determine how sick a child is in four clinical areas: respiratory distress, dehydration, infection risk and malnutrition,. It generates WHO-approved treatment and triage recommendations. The clinical data acquired by using *MEDSINC* can also be used for public health outcomes based studies and disease surveillance.

**Michael Hawkes**
University of Alberta
CANADA
***Solar-Powered Oxygen***
An oxygen system in which concentrators are powered by solar panels installed in health facilities reducing dependence on often unreliable electricity supplies and expensive oxygen cylinders. Trials of the system are underway in two sites in Uganda supported by Grand Challenges Canada.

**Bernard Olayo**
Center for Public Health and Development
Kenya
***Hewa Tele Oxygen Solutions***
A sustainable business model to provide affordable oxygen to hospitals in rural areas in Kenya by establishing oxygen generation and distribution networks run by a private operator through a PPP agreement with the local government. Health workers are trained to use oxygen by the private operator who also provides ongoing maintenance.

**Kristi Otto**
Inspire Living (with Project HOPE)
USA
***INSPIRE***
A portable smart band and pediatric monitor that automatically counts respiratory rate. When the band is placed across a child's chest and under each armpit for one minute, it takes vital measurements and reports respiratory rate on the display. The information can be stored or displayed on a mobile device via bluetooth.

**Henrik Pranov**
Heliac
DENMARK
***SMILE Energy System***
A Solar, Mobile, Independent, Light, Energy (SMILE) system to replace the use of open fire. The device is a plastic foil with embedded micro-mirrors that attracts the light from the sun. The foil is stretched out on frame and positioned towards the sun. When the sunlight hits the foil it generates heat. SMILE is light and much portable. Testing in Denmark has shown that the system can boil 1 liter of water in 15 minutes.

**Tim Prestero**
Design That Matters
USA
***Pelican Pulse Oximeter***
Pelican is a pulse oximeter designed especially to allow inexperienced community health workers to conduct pneumonia spot-checks on newborns in low resource settings. The device works for the tiniest babies, is reusable, eliminates the most common sources of user error and product failure and will tangibly and positively impact the health and development of newborns in the most vulnerable situations.