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# TRANSITIONING GLOBAL HEALTH TECHNOLOGIES FROM LABS TO LDCS

NOVEMBER 6, 2009

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## Overcoming the Barriers to Address the Challenges: *Appropriate Technology Design*

**McMurtry Auditorium, Duncan Hall**

### Successful Case Studies

**8:30-9:30**

- The real story of Life Straw
- Integrated technology platforms for poverty-related diseases

Roelie Bottema, Vestergaard Frandsen  
Evan Lee, FIND

### Point-of-Care Diagnostics

**9:30-10:45**

- Lab-on-a-Chip technology for measuring CD4 counts
- Microfluidic point-of-care diagnostics
- Nanosensors to probe antibiotic resistant superbugs

John McDevitt, Rice University  
Sam Sia, Columbia University  
Rachel McKendry, University College London

~ Coffee Break ~

### Point-of-Use Water Treatment

**11:00-11:50**

- Arsenic removal and bactericidal technologies
- Detection and inactivation of pathogens

Qilin Li, Rice University  
Kara Nelson, UC Berkeley

## *Emerging Technologies for the Field*

**11:50-12:15pm**

**McMurtry Auditorium, Duncan Hall**

Bilirubin UV Phototherapy Lights  
Fluorescent Field Microscope  
Lab in a Backpack Suite

Maria Oden, Rice University  
Yiwen Cui  
Andrew Miller  
Elizabeth Nesbit

## *Lunch with Poster Session & Technology Showcase*

**12:15pm-1:30pm**

**Grand Hall, Ley Student Center**

## Overcoming the Barriers to Address the Challenges: *Appropriate Technology Dissemination & Regulation*

**McMurtry Auditorium, Duncan Hall**

### Successful Case Studies

**1:45-2:45pm**

- SoloShot Needle
- PUR

Michael Free, PATH  
Greg Allgood, Procter & Gamble

~ Coffee Break ~

### Panel Discussion on Regulatory Issues & Medical Ethics Concerns

**3:15 – 4:30pm**

- Making the Transition: Where are the pathways? Where are the gaps?
- Dual use vs. LDC only use: How does the pathway differ?
- What do you do when there is no international standard?
- The Right to Healthcare

*Moderator*  
Maria Oden, Rice University

*Panelists*  
Binseng Wang, International Consultant  
Bob Malkin, Duke University  
Gordon Schutze, VP International Medical Services, BIPAI

## Keynote Address

**4:30-5:30pm**

### *Oral Rehydration Therapy: A Triumph of Translational Research*

**McMurtry Auditorium, Duncan Hall**

Stanley Schultz, M.D., U.T. Medical School Houston

**- reception to follow -**