

ETHOS 2019 AGENDA

FRIDAY Evening (Baymont Inn)

- 2:00-3:00pm** **Clean Cooking 101 (aka Welcome to the Sector!): Elisa Derby**
- 3:30-5:00pm** **Stoves 101: Biomass Fuels & Stoves for Beginners: Dale Andreatta, Dean Still, Christa Roth**
- 5:00-7:00pm* *Reception: food, drink, networking*
- 7:00-9:00pm** **Informal Slideshows**

SATURDAY (Northwest University)

- 7-8:20am* *Walk for A Change [4 mile walk from Baymont to NWU]*
- 7:30-8:30am* *Coffee/tea, fruit, pastries, networking (lobby)*
- 8:30-9:00am** **Introduction to ETHOS 2019:
ETHOS Board, 2019 Scholarship Recipient Marco Tulio Maldonado**
- 9:00-9:45am** **Clean Cooking Alliance (Penumetcha)**
- 9:45-11:00am** **Plenary: Adoption (Ramanathan, Wilson, Maldonado)**
- 11:00-11:20am* *Coffee/tea, fruit, pastries, networking (lobby)*
- 11:30-12:30pm** **Classroom sessions, as per below:**

Design – A1	Testing– B1	Notes from the field – C1
Barbour*- The Kuniokoa Turbo: a widely adopted, side-feed, biomass cookstove	Lefebre- Enabling Regional Stove Testing Centers to do Personal Exposure Measurement: Combining gravimetric measurements with real time filter reflectance and pressure drop measurements	Charron- Worth 1000 Words: Using photo elicitation to understand time-use and quality in rural Kenyan households
Udesen- Using over-fire air-injection as a means to control emissions behavior in a side-feed wood-burning cookstove	Rapp- Laboratory commissioning, testing and measurement validation training in Uganda	Filler- Market development findings from Ugandan refugee settlements
Bentson- Descriptions of thermoelectric generation and electrostatic precipitation in a rocket stove	Mazzucco- Walk away testing	Mitchell- Household energy emission and their contribution to ambient air pollution

* Presented by Paul Means and Van Dinh

- 12:30-2:00pm* *Lunch and networking (cafeteria)*

2:00-3:00pm Classroom sessions, as per below:

Design – A2	Fuels – B2	Health– C2
Peiffer- Improved Technologies for Processing Handcrafted Shea Butter in Northern Ghana: Research, design, and repercussions	Thompson- biogas	Ruiz- Health implications of chimney-stoves in Mexico and Central America
Means- Shea Roasting: A tough nut to crack	Andreatta- A solar heater/drier for low temperature household energy needs	Mitchell- Utilizing implementation science to evaluate household energy programs
Harris- Update on the Wonderwerk TLUD-ND tier 4 cook stove	Gius- Insulated Solar Electric Cooking: Year IV, progress in California, Uganda, and Malawi	Johnson- Updates from the HAPIN Trial: Progress and pilot exposure results

3:10-4:10pm Classroom sessions, as per below:

Design – A3	Fuels – B3	Sector support tools – C3
Levine- The Alliance for Green Heat--Comparison of cookstoves and woodstove technologies	Charron- Green fuel comes to the big city: will ethanol displace kerosene and charcoal in urban homes?	Garland**- An alternative technique for determining gravimetric particle mass deposition on filter substrate: the Particle Extraction Method
Still: Comparing combustion techniques in heating and cooking stoves		Serrano- A geospatial web-based tool to evaluate woodfuel environmental impacts
Baker- Flame cap TLUD?		Derby- Recent climate change reports summarized

***Presented by Madeleine Rossanese*

4:10-4:30pm Coffee/tea, veggies, cookies, networking (lobby)

4:30-6:00pm Plenary: ISO (Chiang, Jetter, Thompson, Johnson, Penumetcha)

6:00pm on *Dinner on own, ride or walk back to Baymont Inn*

SUNDAY (Northwest University)

7:30-8:50am *Walk for A Change [4 mile walk from Baymont to NWU]*

8:00-9:00am *Coffee, fruit, pastries, networking (lobby)*

9:00-9:30am One sentence Saturday recap!

9:30-10:45am Plenary: Using technology to monitor impacts (Piedrahita, Coffey, Wilson, MacCarty Lefebre; community discussion)

10:45-11:00am *Coffee/tea, fruit, pastries, networking (lobby)*

11:10-12:30pm Classroom sessions, as per below:

Adoption – A4	Fuels/Testing– B4	Sensors – C4
Maldonado- History of the production of the Aler stoves in Guatemala	Lello- Distributed Pellet Fuel Manufacture from Alien Trees	Piedrahita- Bluetooth Beacon proximity sensing for personal exposure monitoring and behavior assessment in household air pollution studies
Romero-Perezgrovas- Culinary traditions and long-term adoption of improved stove models	Cox- Guatemala store and alternative fuel	Coffey- Field findings from a low-cost PM sensor and comparisons to gravimetric sampling
Pakravan- Integration of user behavior into cookstove design through utility functions and the Theory of Planned Behavior	Jetter- New international ISO standard for lab testing of cookstoves now published!	Rossanese- Thermocouple Placement and Temperature Traces in Stove-Use Monitoring
Masera- Health, energy and greenhouse gas emission implications of fuel-device stacking	Penumetcha/Gross- Clean cooking standards implementation workshops	

12:30-2:00pm Lunch and networking (cafeteria)

2:00-3:00pm Classroom sessions, as per below:

Thematic breakouts	Emissions- B5	Sensors - C5
1) Stove finance with carbon offsets, charcoal buyback, biochar, blockchain, fuel sales etc. (Paul Anderson)	Bentson- The New ISO Compliant Laboratory Emissions Monitoring System (LEMS)	Wilson- How to Monitor Thousands of Cookstoves: Geocene's SUMS Platform for HAPIN
2) (Dale Andreatta)	Pfotenhauer- Updated emission factors from diffuse combustion sources in sub-Saharan Africa and their effect on regional emission estimates	Ventrella- Design and field testing of an integrated sensor system to measure cookstove fuel consumption and usage
	Attenweiler- Post Combustion Methods for Emission Reduction in Small Scale Combustion: A Literature Review	MacCarty- A modular system of wireless sensors for integrated assessment of cookstove usage, stacking, fuel consumption, air quality, and personal exposure

3:00-3:30pm ETHOS Board Summary (lecture hall)

3:30 – 4:00pm Coffee/tea, veggies, cookies (lobby)

3:30 – 5:00pm Lighting of the Stoves! (outside, with s'mores and more!)