

# ETHOS 2019 AGENDA

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## FRIDAY Evening (Baymont Inn)

- 1:30-3:00pm**      **Cookstoves 101 (aka Welcome to the Sector!) session**
- 3:30-5:00pm**      **Stoves 101: Biomass Fuels & Stoves for Beginners: Dale Andreatta, Dean Still**
- 5:00-7:00pm*      *Reception: food, drink, networking*
- 7:00-9:00pm**      **Informal Slideshows**

## SATURDAY (Northwest University)

- 6:50-8:10am*      *Ryan Thompson 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 2018:  
ETHOS Board, 2018 Scholarship Recipient Rebecca Apicha**
- 9:00-9:45am**      **Clean Cooking Alliance (Penumetcha/Grinnell)**
- 9:45-11:00am**      **Plenary: Adoption (Ramanathan, Wilson, Apicha)**
- 11:00-11:20am*      *Coffee/tea, fruit, pastries, networking (lobby)*
- 11:30-12:30pm**      **Classroom sessions, as per below:**

<b>Design – A1</b>	<b>Testing– B1</b>	<b>Notes from the field – C2</b>
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	Jago- 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 Test	Mitchell- Household Energy Emissions and their Contribution to Ambient Air Pollution

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

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

<b>Design – A2</b>	<b>Fuels – B2</b>	<b>Health– C2</b>
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:**

<b>Design – A3</b>	<b>Fuels – B3</b>	<b>Sector support tools – C3</b>
Levine- The Alliance for Green Heat--Comparison of Cookstoves and Woodstove technologies	Stokes- The Emerging Methanol Economy in India: Pilot Study in Assam; Cooking with Methanol	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	Kiwana- Evaluation of the alternative fuel supply chain and cooking technologies utilized in humanitarian settings in Uganda	Ghilardi- A geospatial web-based tool to evaluate woodfuel environmental impacts
Baker- Flame Cap TLUD?	Charron- Green fuel comes to the big city: will ethanol displace kerosene and charcoal in urban homes?	

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

**4:30-6:00pm Plenary: ISO (Mitchell, Jetter, Thompson, Johnson)**

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

**SUNDAY (Northwest University)**

7:20-8:40am *Ryan Thompson 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 (Community discussion)**

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

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

<b>Adoption – A4</b>	<b>Fuels/Testing– B4</b>	<b>Sensors – C4</b>
Apicha- Interntional Lifeline Fund's work around adoption, including collaboration with Oregon State University	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
Kohlmann- 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- Analysis of behavior-based cookstove adoption with agent based modeling	Jetter- Now Published (ISO): Harmonized laboratory test protocols Part 1: Standard test sequence for emissions and performance, safety and durability	Gandhi- Household Air Pollution and Stove Usage Monitoring in Chhattisgarh, India
Hing- Measuring Long-term Adoption of Improved Biomass Cookstoves in Households in Rural India		Rossanese- Thermocouple Placement and Temperature Traces in Stove-Use Monitoring

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

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

<b>Small group breakouts</b>	<b>Emissions- B5</b>	<b>Sensors - C5</b>
	Bentson- The New ISO Compliant Laboratory Emissions Monitoring System (LEMS)	Wilson- How to Monitor Thousands of Cookstoves: Geocene's SUMS Platform for HAPIN
	Pfotenhauer- Updated emission factors from diffuse combustion sources in sub-Saharan Africa and their effect on regional emission estimates	MacCarty- A modular system of wireless sensors for integrated assessment of cookstove usage, stacking, fuel consumption, air quality, and personal exposure
	Attenweiler- Post Combustion Methods for Emission Reduction in Small Scale Combustion: A Literature Review	Ventrella- Design and field testing of an integrated sensor system to measure cookstove fuel consumption and usage

**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!)**